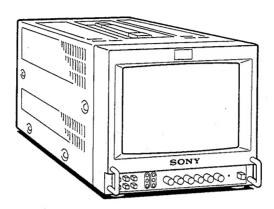
SERVICE MANUAL



AEP Model

Chassis No. SCC-F09R-A PVM-90440M Chassis No. SCC-F09A-A

SP 00151

SPECIFICATIONS

Video signal

Color system

PAL, SECAM, NTSC_{3.58}, NTSC_{4.43}

Resolution

PVM-9044QM: 450 TV lines PVM-9041QM: 250 TV lines

Aperture correction -4.0 dB - +6.0 dB (at 3.0 MHz) Frequency response 6.0 MHz (-3.0 dB) at all inputs

Synchronization

AFC time constant 1.0 msec.

Picture performance

Normal scan

6% over scan of CRT effective screen

area

Underscan

3% underscan of CRT effective screen

area

H. linearity

Less than 7.0% (typical)

V. linearity Convergence Less than 7.0% (typical) Central area: 0.43mm (typical)

Peripheral area: 0.53mm (typical)

Raster size stability H: 1.0%, V: 1.5%

High voltage regulation

3.0%

Color temperature D65

Inputs and Outputs

Inputs

Y/C IN: 4-pin mini DIN connector

(See the pin assignment on page 2.)

VIDEO IN: BNC connector 1 Vp-p ± 6dB, sync negative AUDIO IN: phono jack, -5 dBs, less

than 47k ohms

R/R-Y, G/Y, B/B-Y: BNC connector R, G, B channels: 0.7 Vp-p, ±6 dB Sync on green: 0.3 Vp-p, negative,

75 ohms terminated

R-Y, Y, B-Y channels: 0.7 Vp-p, ±6 dB (Standard color bar signal of 100%

chrominance)

EXT SYNC IN: BNC connector Composite sync 4 Vp-p, ±6 dB,

Loop-through outputs Y/C OUT: 4-pin mini DIN connector

> VIDEO OUT: BNC connector. 75 ohms terminated AUDIO OUT: phono jack Output level 0.5 W

EXT SYNC OUT: BNC connector.

75 ohms terminated

Tally/remote input

TALLY/REMOTE: 8-pin mini DIN connector (See the pin assignment

on page 2.)

General

Power consumption 43 W at AC operation

40 W at DC operation

- Continued on next page -



TRINITRON® COLOR VIDEO MONITOR SONY

PVM-9041QM/9044QM

Power requirements 100 - 240 V AC, 50/60 Hz (for all

models)

12 V DC, with the Sony (NP-1A/1B) battery pack (not supplied) or AC-500/500CE AC power adaptor

(not supplied)

Operating temperature range

0 - 35 °C

Storage temperature range

-10 - +40 °C

Humidity

0 - 90%

Dimensions

Approx. 217 x 217 x 352.5 mm (w/h/d)

(8 5/8 x 8 5/8 x 14 inches)

not incl. projecting parts and controls

Weight

Approx. 7.8 kg (17 lb 3 oz)

not incl. battery packs

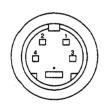
Accessory supplied AC power cord (1)

Cable with an 8-pin connector

Design and specifications are subject to change without notice.

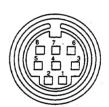
Pin Assignment

Y/C IN connector (4-pin mini DIN)



Pin No.	Signal	Description	
1	Y-input	1 Vp-p, sync negative, 75 ohms	
2 CHROMA sub-carrier-input		300 mVp-p, burst Delay time between Y and C: within 0±100 nsec., 75 ohms	
3	GND for Y-input	GND	
4	GND for CHROMA- input	GND	

TALLY/REMOTE connector (8-pin mini DIN)



Pin No.	Signal	
1	Blue only	
2	H/V delay	
3	GND	
4	INT/EXT SYNC	
5	Tally	
6	Underscan/normal scan	
7	A/B or RGB/Y R-Y B-Y	
8	RGB/LINE	

For remote control, connect the pin of the desired function to pin 3 (GND).

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTOTHE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1 GENERAL

1-1. FEATURES

Four color systems available

The monitor can display PAL, SECAM, NTSC3.58 and NTSC4.43* signals. The appropriate color system is selected automatically.

* A signal of NTSC_{4.43} is used for playing back NTSC recorded video cassettes with a video tape recorder/player especially designed for use with this system.

Super Fine Pitch Trinitron picture tube

(PVM-9044QM only)

The Super Fine Pitch Trinitron picture tube provides a high resolution picture. Horizontal resolution is more than 450 TV lines at the center of the picture.

Blue only picture

The picture can be displayed in blue and black only. This facilitates hue adjustment and the observation of video noise.

Analog RGB/component input connectors

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.

Y/C input connector

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

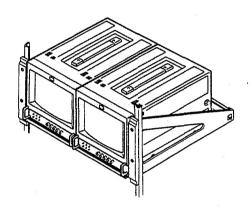
Comb filter

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

The Y/C, VIDEO IN and EXT SYNC IN connectors are terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

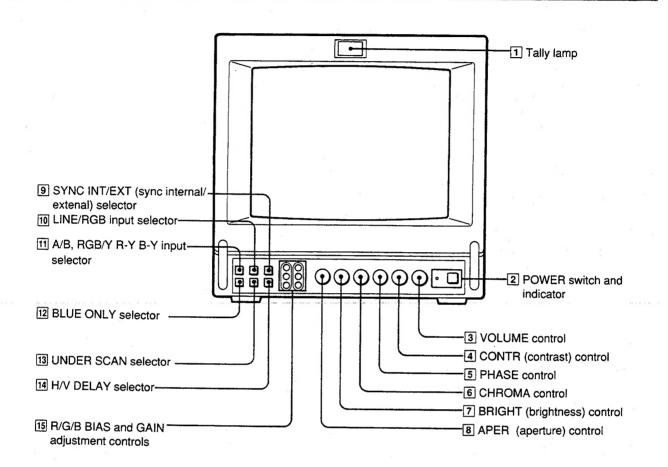
ElA standard (Surch act moratio

By using an MB-507 mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the MB-507.



1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS

Front



1 Tally lamp

2 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

The POWER indicator also functions as the battery indicator. When the internal battery becomes weak or the power supplied through the DC12V IN jack decreases, the indicator flashes.

3 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

4 CONTR (contrast) control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

5 PHASE control

This control is effective only for the NTSC_{3.58} and NTSC_{4.43} color systems. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

Notes

- The PHASE, CHROMA and APER control settings have no effect on an analog RGB signal.
- The PHASE control has no effect on component singals.
- The PHASE control setting is effective only for the NTSC system.

6 CHROMA control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

7 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

8 APER (aperture) control

Turn clockwise for more sharpness and counterclockwise for less.

9 SYNC INT/EXT (sync internal/external) selector

Keep this button released (INT) to operate the monitor on the sync signal from the displayed composite video signal.

Depress this button (EXT) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

10 LINE/RGB input selector

Select the program to be monitored. Keep this button released (LINE) for a signal fed through the LINE A or LINE B connectors. Depress this button (RGB) for a signal fed through the RGB connectors.

111 A/B, RGB/Y R-Y B-Y input selector
When the LINE/RGB input selector is set to LINE,
keep this button released (A) for a signal fed through the
LINE A connectors. Depress this button (B) for a signal
fed through the LINE B connectors.

When the LINE/RGB input selector is set to RGB, select the RGB signal or the component signal which is fed through the RGB input connectors. Keep this button released (RGB) for the RGB signal. Depress this button (Y R-Y B-Y) for the component signal.

12 BLUE ONLY selector

Depress this button to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and the observation of video noise

13 UNDER SCAN selector

Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

14 H/V DELAY selector

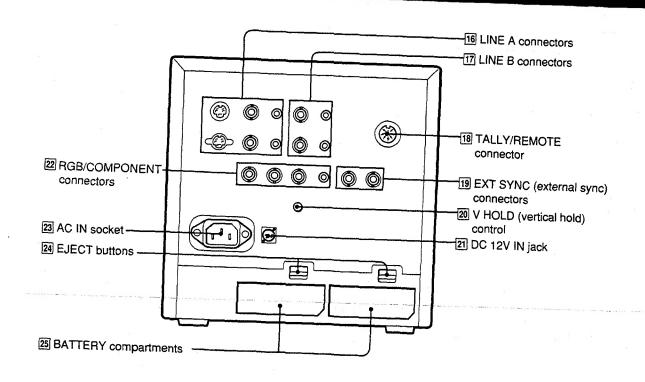
Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

15 R/G/B BIAS and GAIN adjustment controls
Used for white balance fine adjustment.
BIAS and GAIN controls are provided for the R (red),
G (green) and B (blue) screens.

BIAS: Adjust the white balance and brightness of the screen at the lowlight.

GAIN: Adjust the white balance and brightness of the screen at the highlight.

Rear



16 LINE A connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector and the A/B, RGB/Y R-Y B-Y selector on the front panel released (LINE and A).

Note

The Y/C IN connector has a priority over the VIDEO IN connector.

When a plug is connected to the Y/C IN connector, the VIDEO IN connector is automatically disconnected.

17 LINE B connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector released (LINE) and depress the A/B, RGB/Y R-Y B-Y selector (B) on the front panel.

VIDEO IN (BNC): Connect to the video output of a video camera, VCR or other video equipment.

VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.

AUDIO IN (phono jack): Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

18 TALLY/REMOTE connector (8-pin mini DIN)

Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can be used for connecting a remote controller. For the pin assignment of this connector, see "Specifications" on page 2.

19 EXT SYNC (external sync) connectors

IN (BNC): When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector. In this case, depress the SYNC INT/EXT selector (EXT) on the front panel.

OUT (BNC): Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

20 V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

21 DC 12V IN jack (XLR, 4 pin)

Connect the Sony AC-500/500CE AC power adaptor (not supplied).

22 RGB/component input connectors

R/R-Y, G/Y, B/B-Y (BNC), AUDIO (phono):

To monitor a signal fed through these connectors, depress the LINE/RGB selector on the front panel (RGB). When the SYNC INT/EXT selector on the front panel is released (INT), the monitor operates on the sync signal from the G/Y channel.

To monitor the analog RGB signal

Connect to the analog RGB signal outputs of a video camera having no sync signal. Keep the A/B, RGB/Y R-Y B-Y selector on the front panel released (RGB).

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal outputs of a Sony BetaCam video camera. Depress the A/B, RGB/Y R-Y B-Y selector on the front panel (Y R-Y B-Y).

23 AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

24 EJECT buttons

Press the EJECT button upwards to remove the battery pack.

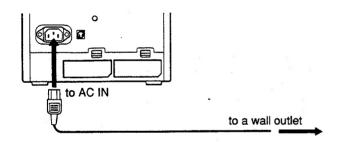
25 BATTERY compartments

Insert the NP-1A/1B battery pack (not supplied).

1-3. POWER SOURCES

House Current

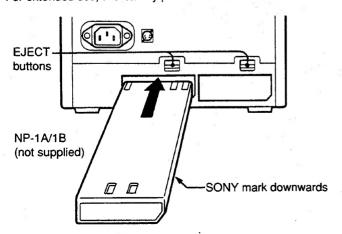
Connect the supplied AC power cord to the AC IN socket and to a wall outlet.



When the AC power cord is plugged into the AC IN socket, the battery pack (if installed) or the AC power adaptor (if connected) is automatically disconnected.

Rechargeable Battery

The monitor can operate with one or two battery packs. For extended use, two battery packs are recommended.



To remove the battery pack, press the EJECT button upwards.

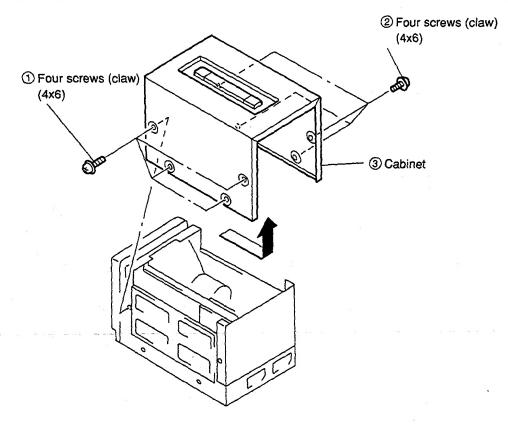
For charging, use the BC-1WA battery charger (not supplied) for the NP-1A or the BC-1WB for the NP-1B.

Note

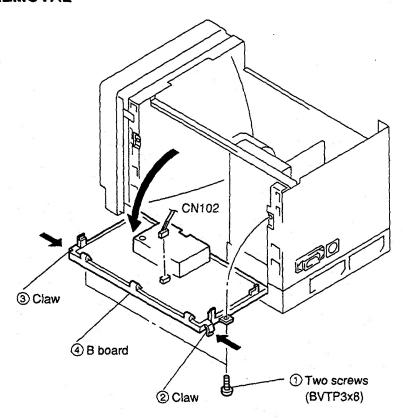
Make sure that the AC power cord and the AC power adaptor are disconnected from the monitor. Otherwise, the monitor cannot operate on the battery pack(s).

SECTION 2 DISASSEMBLY

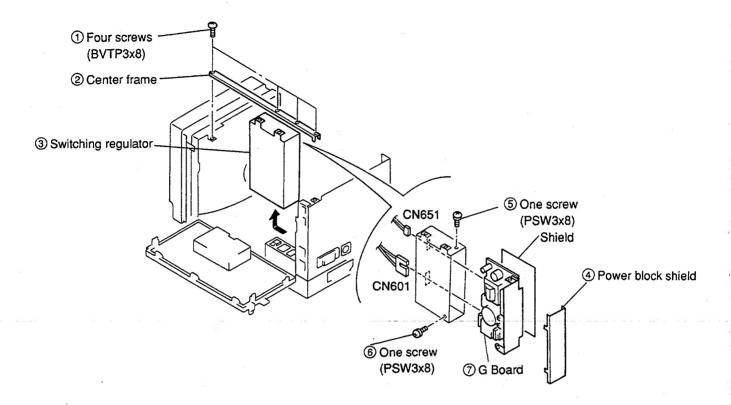
2-1. CABINET REMOVAL



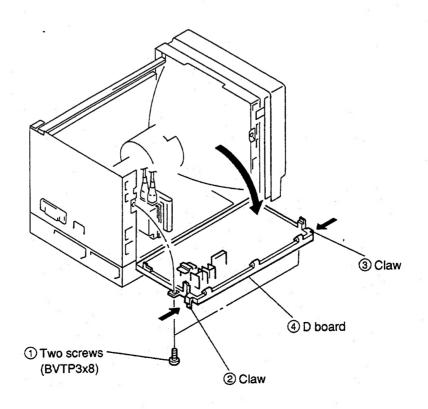
2-2. B BOARD REMOVAL



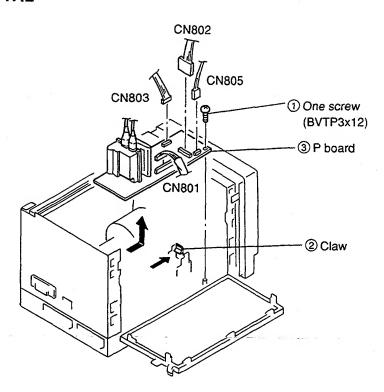
2-3. SWITCHING REGULATOR REMOVAL



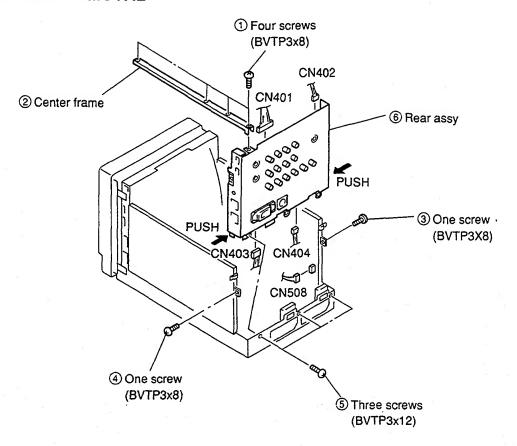
2-4. D BOARD REMOVAL



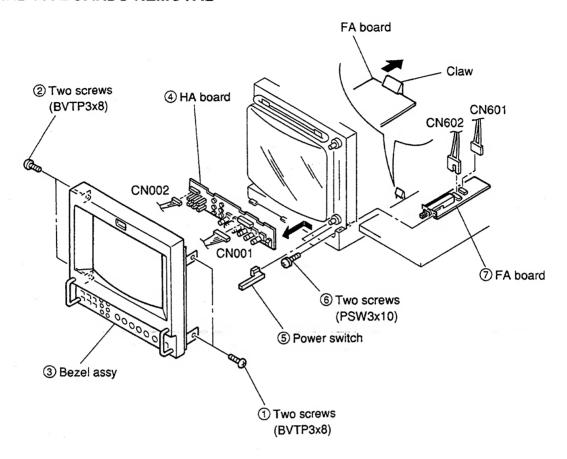
2-5. P BOARD REMOVAL



2-6. REAR ASSY REMOVAL



2-7. HA AND FA BOARDS REMOVAL



2-8. PICTURE TUBE REMOVAL

Note: Caution for ANODE CAP installation.

When you replace PICTURE TUBE or FBT, remove RTV on ANODE CAP so that PICTURE TUBE and FBT can be separated. Please adhere picture tube and anode cap in accordance with the following procedure.

ADHERING PROCEDURE OF ANODE CAP.

- Clean PICTURE TUBE ANODE CAP with ethnaol to remove original RTV.
- 2. Dry clean face with air.

 Use KE-490RTV (RTV silicone adhesive, SHIN-ETSU CHEMICAL).

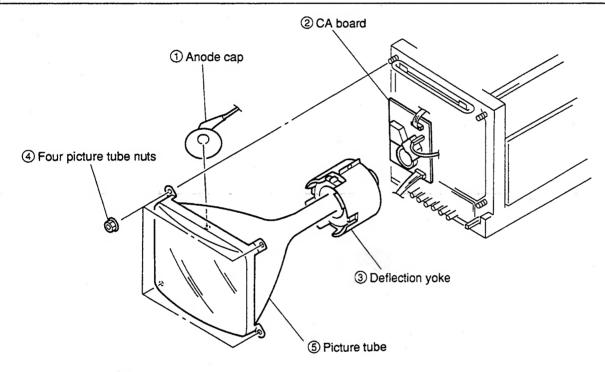
Part. No.

Description

7-322-065-19

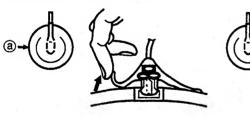
Silicone (RTV) KE-490W

- 4. Install ANODE CAP.
- Adeguately apply RTV to the entire picture tube anode area, piace the anode cap onto the picture tube and push it down securety so that no air pockets remain beneath the cap.
- 6. Dry more than 12 hours at room temperature.

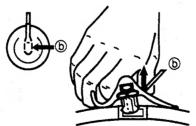


REMOVAL OF ANODE-CAP

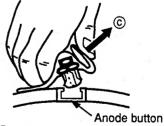
· REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



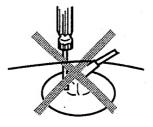
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

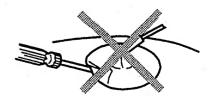


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ②.

HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
 - A metal fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly!





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control	80%
BRIGHTNESS control	50%

Perform the adjustments in order as follows:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

Note: Test equipment Required.

- 1. Color Bar/Pattern Generator
- 2. Degausser
- 3. Color Analyzer (Minolta)
- 4. Luminance Level Meter

3-1. BEAM LANDING

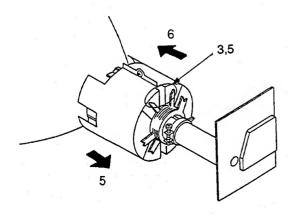
Precaution

- 1. Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force
- 2. Turn the power switch for the unit ON and erase the magnetic force using a degausser.

(1) Beam Landing

- 2. Adjust the white balance, G2 voltage and convergence roughly.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.3-1.
- 4. Switch over the pattern generator to green.
- Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig. 3-2)
- 6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
- When landing at the corners is not right, correct by using the magnet. (Fig.3-3)
- 8. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

CAUTION: When correction magnet is used, be sure to degauss the unit.



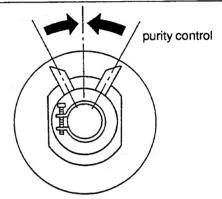


Fig.3-1

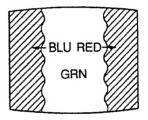
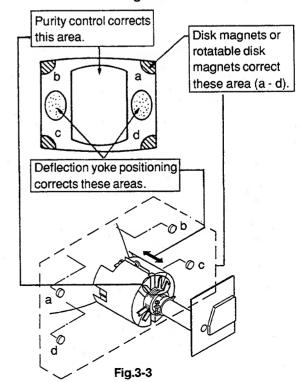


Fig.3-2

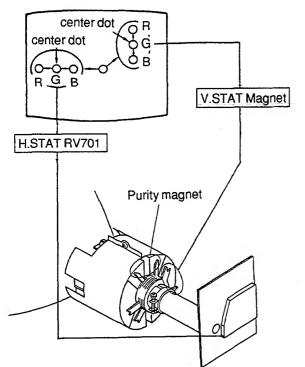


3-2. CONVERGENCE

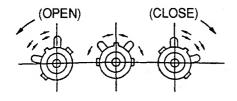
- (1) Horizontal and vertical Static Convergence Adjustment on the Center of Screen.
- Before starting, perform V. SIZE, V. CENT, H.SIZE, H.CENT and Screen Distortion Adjustment rightly.

(Static Convergence Adjustment)

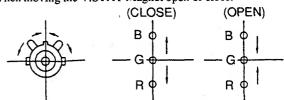
- 1. Receive a dot signal, setting BRIGHTNESS minimum and set CONTRAST to normal.
- Adjust H.STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)



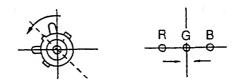
* If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform adjustment using V.STAT at the same time while tracking. (Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.)



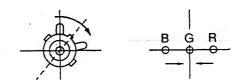
- 4. When the V.STAT magnet is moved in the direction of arrow A and b, red, green and blue dots move as shown below.
- 1 When moving the V.STAT Magnet open or close.



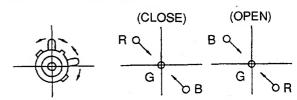
2 When moving the V.STAT magnet counterclockwise.



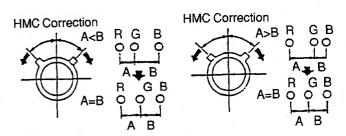
3 When moving the V.STAT magnet clockwise.



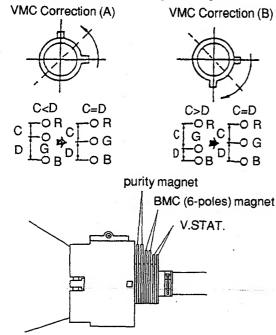
4 When tilt the V.STAT magnet and open or close.



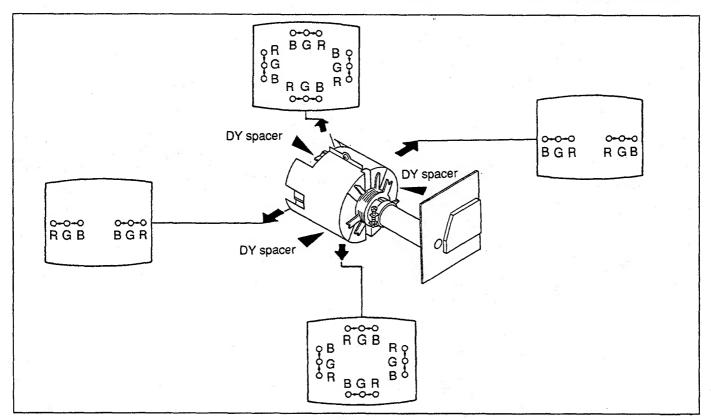
- * If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.
- 5. HMC and VMC correction for BMC (6-Poles) magnet.
- 1 HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



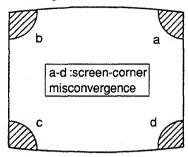
② VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

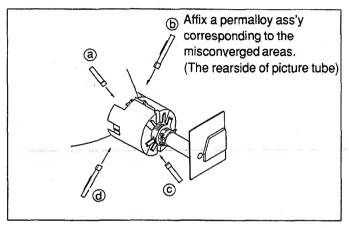


- (2) Horizontal and Vertical Dynamic Convergence Adjustment at the Environs of the Screen (Dynamic Convergence Adjustment)
- 1. When there is misconvergence at the sides of screen, adjust for best convergence as follows by moving the deflection yoke.
- Loosen deflection yoke screw. Remove deflection yoke spacers.
 Move the deflection yoke for best convergence. Tighten the deflection yoke screw. Install three deflection yoke spacers.



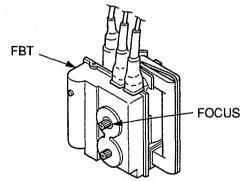
Screen-corner Convergence





3-3. FOCUS

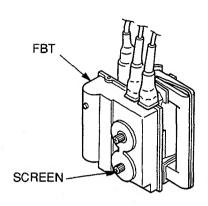
- 1. Receive the broadcast.
- 2. CONTRAST → Normal
- Adjust FOCUS control so that the focus on the center of screen becomes to the best.



3-4. WHITE BALANCE

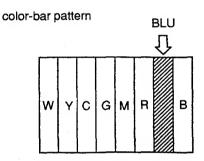
[Screen (G2) Voltage Adjustment]

- 1. Receive a dot signal with the pattern generator.
- 2. Adjust R. G. B cut-off controls so that respective cathode voltage against ground becomes 103V DC.
- Observing the screen, adjust SCREEN control so that the background of the dot signal is bright dimly.



[White Balance]

- 1. Receive a color-bar pattern signal with the pattern generator. (Make black and white screen by chroma switch off.)
- . BRIGHTNESS50%
 - CONTRAST Minimum
 - CHROMA50%
 - DRIVE control Mechanical center
 - BKG control Mechanical center
- 3. Adjust RV118 (SUB BRT) on B board so that the blue stripe portion on the color-bar pattern signal is bright dimly.



- 4. Receive an entirely white signal from the pattern generator.
- 5. CONTRAST70% (90 degree clockwise from mechanical center.)
- 6. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 3 Nits. (The condition the screen is bright dimly.)
- Adjust white balance at cut-off using RV119 (G-C/O) and RV121 (B-C/O).
- 8. Change the all-white signal luminance level to 100 IREs.
- 9. Adjust white balance at high-light using RV120 (G-GAIN) and RV121 (B-GAIN).
- 10. Change the unit to blue ONLY mode.
- 11. Adjust white balance (at high-light) in blue ONLY mode using RV124*R-GAIN/BL) and RV125 (G-GAIN/BL).
- 12. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 8 Nits. Confirm that white balance at cut-off is satisfactory...

SECTION 4 SAFETY RELATED ADJUSTMENT

4-1. SAFETY RELATED ADJUSTMENTS

B+ ADJUSTMENT AND B+ MAX CHECK FOR SERVICING (☑ RV651)

The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

☐ on G board: (Power supply block)
IC601, IC651, PH601, C654, R653, R655, R656, R657, RV651.

- 1. Input the AC power supply voltage $240V_{-0}^{+1}V$.
- 2. Input the monoscope signal.
- 3. Set as follows.
 - CONTRAST80%
 - BRIGHTNESS......50%
- 4. Connect the digital multimeter to RY1601 pin-7 on the D board.
- 5. Adjust RV651 on the G board so that the +B voltage becomes 40.0 \pm 0.1 V.
- 6. After adjusting RV651, fix it with an epoxy.
- 7. Input the AC power supply voltage $240V_{-0}^{+1}V$.
- 8. Input the dot signal.
- 9. Set as follows.
 - CONTRAST Minimum
 - BRIGHTNESS Minimum
- 10. Check that the B+voltage is below 41.9V. If it is above this value, repeat from step 1

B+ MAX IN DC POWER INPUT MODE, CONFIRMATION (☑ RV1603)

The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

on D board:

Q1601,Q1602,Q1603,D1601,D1602,D1603,D1604,D1605,C1601,C1602,R1601,R1602,R1603,R1604,R1605,R1606,R1607,R1608,R1629,R1628,R1630,RV1601,RV1603.

- 1. Supply DC 12V +0.4 V from DC 12V IN connector.
- 2. Receive a dot signal.
- 3. CONTRAST Minimum
 - BRIGHTNESS Minimum
- 4. Connect a digital multimeter to C1605 positive + side of D board.
- 5. Turn RV1601 on the D board fully clockwise. Confirm that the voltage of C1605 + pin is less than 41.9V DC.
- 6. If step 5 is not satisfied, readjust the RV1603. After adjusting, fasten RV1603 in place with epoxy.

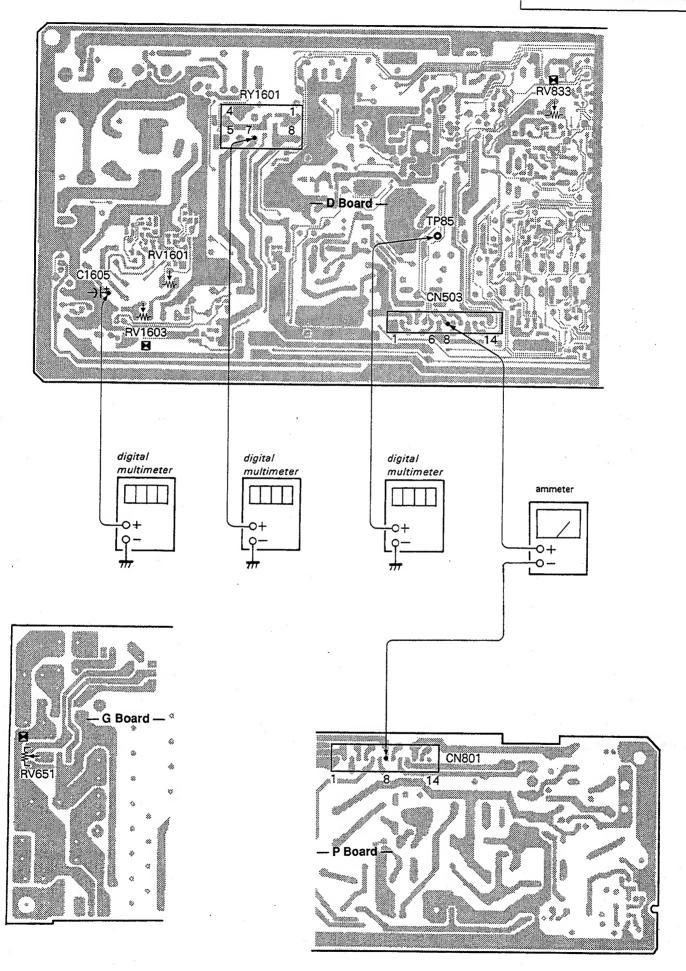
HOLD-DOWN CIRCUIT CONFIRMATION (☐ RV833) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

on D board:

IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863.

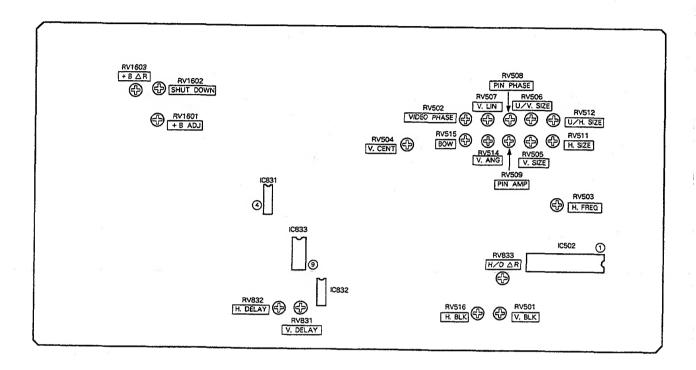
- on P board:NL801,T802 (FBT),C814.
- 1. Receive an entire white signal.
- 2. CONTRAST......Maximum
 - BRIGHTNESS...... Maximum
- 3. Connect a digital multimeter to the TP85 (CN503 pin-6).
- 4. Confirm the voltage is 14.1 ± 3.0 V DC.
- Receive a dot signal.
- Connect an ammeter between D board CN503 pin-® and P board CN801 pin-®.
- 7. Adjust BRIGHTNESS and CONTRAST so that the current is IABL = $160 \pm 30 \mu A$.
- 8. Apply an external DC voltage gradually to TP85. When the voltage becomes $18.5V \pm 0.1V$ DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- When external DC voltage at TP85 becomes 17.5V ± 0.1V DC, confirm the HOLD-DOWN circuit doesn't operate.
- 10. Receive an entire white signal.
- 11. Adjust with BRIGHTNESS and CONTRAST controls so that the current is IABL = $520 \pm 30 \,\mu\text{A}$.
- 12. Apply DC voltage of 17.8V ± 0.1V to TP85. Confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 13. With the same set-up as steps 10 and 11, supply 16.8V ± 0.1V DC to TP85. Confirm that the HOLD-DOWN circuit doesn't operate.
- 14. When above specifications are not satisfied, readjust RV833. After adjusting, fasten RV833 in place with epoxy.



SECTION 5 CIRCUIT ADJUSTMENTS

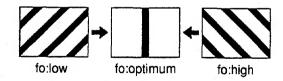
5-1. D BOARD ADJUSTMENTS

-D BOARD (COMPONENT SIDE)-



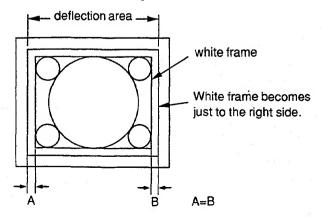
HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV503)

- 1. Receive a monoscope signal.
- Connect pin-① of IC502 to ground with 100μF/16V electrolytic capacitor.
- 3. Adjust RV503 (H.FREQ) so that the screen streaming to stops.



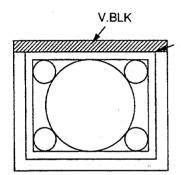
SCREENPHASE ADJUSTMENTS (RV502, RV512, RV516)

- 1. Receive a monoscope signal.
- 2. Set U/S (Under Scan) switch to Under mode.
- 3. CONTRASTMinimum
 - BRIGHTNESS Maximum.
- Adjust RV512 (U/H. SIZE) so that the white frame of monoscope signal becomes visible.
- 5. Adjust RV516 (H.BLK) for minimum BLKG width so that all the deflection area becomes visible.
- 6. Adjust RV502 (VIDEO PHASE) so that the monoscope's white frames should have equal width.



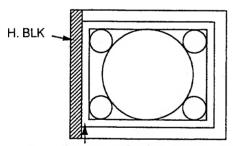
H.V BLK ADJUSTMENTS (RV501,RV516)

- 1. Receive a monoscope signal.
- 2. Set U/S (Under Scan) switch to Under mode.
- 3. CONTRAST Minimum
 - BRIGHTNESS Maximum.
- 4. V. BLK Adjustment (RV501)
- Adjust RV501(V. BLK) so that the upper side white frame of monoscope signal is not blanked.



Make not to blank the upper side white frame of monoscope signal.

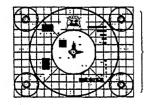
- 5. H. BLK Adjustment (RV516)
- Adjust with RV516 (H. BLK) so that the left end white vertical line of the white frame of monoscope signal is not blanked as following figure.



Make not to blank the left end white vertical line of the white frame of monoscope signal.

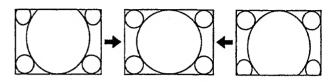
VERTICAL DEFLECTION PART ADJUSTMENTS (RV504, RV505, RV506, RV507)

- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS50%
- 3. Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.

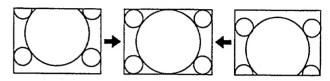


12 frames

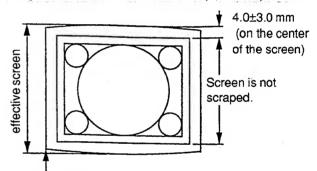
4. Adjust RV507 (V.LIN) the vertical linearity.



5. Adjust RV504 (V. CENT) the vertical position.



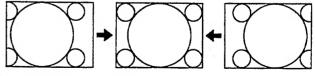
- 6. V. SIZE ADJUSTMENT (RV505)
- (1) Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 11.75 +0.2 frames.
- 7. V.SIZE IN UNDERSCAN MODE ADJUSTMENT (RV506)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust the Under V.SIZE with RV506 (U/V. SIZE) as follows.



Screen is not wane on the four corners.

HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV508, RV509, RV511, RV514, RV515, RV801/P board)

- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS50%
- 3. H. CENT Adjustment (RV801 on P board)
- (1) Adjust RV801 on P board (H. CENT) the horizontal position.



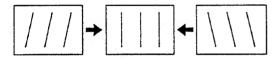
- 4. H. SIZE Adjustment (RV511)
- (1) Adjust RV511 (H. S1ZE) the horizontal size of 16 frames of monoscope signal.

16 frames

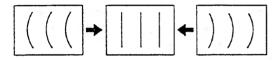
5. PIN AMP. PIN PHASE, V. ANG, BOW ADJUSTMENTS (RV508 RV509, RV514, RV515)

Adjust RV514 (V. ANG) and RV515 (BOW) to correct vertical angular distortion and bow distortion. Adjust RV509 (PIN AMP) and RV508 (PIN PHASE) so that vertical lines become straight.

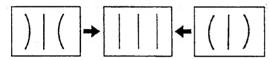
V. ANG (RV514)



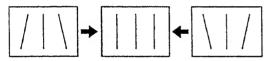
• BOW (RV515)



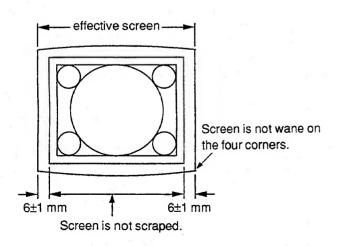
• PIN AMP (RV509)



• PIN PHASE (RV508)

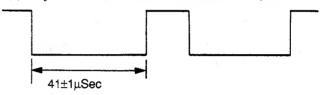


- 6. H. SIZE ADJUSTMENT (RV511)
- (1) Adjust RV511 (H. SIZE) so that the horizontal size becomes 16 ± 0.2 frames.
- 7. UNDERSCAN MODE H.SIZE ADJUSTMENT (RV512)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust RV512 (U/H. SIZE) the Under H. SIZE as shown in the figure.

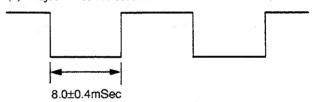


H V DELAY ADJUSTMENT (RV831, RV832)

- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS50%
- 3. Set H V DELAY switch to DELAY mode.
- 4. H. DELAY Adjustment (RV832)
- (1) Connect an oscilloscope to pin-4 of IC831.
- (2) Adjust RV832 (H. DELAY) to becomes 41 ± 1 µsec.



- 5. V. DELAY Adjustment (RV831)
- (1) Connect an oscilloscope to pin-9 of IC833.
- (2) Adjust RV831 to become 8.0 ± 0.4 msec as follows.



SHUT-DOWN VOLTAGE ADJUSTMENT (RV1602)

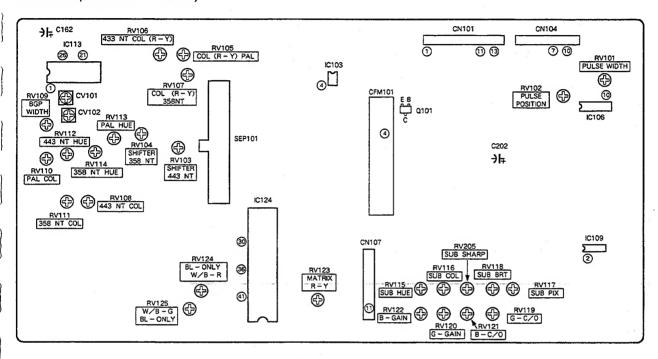
- 1. Fully rotate RV1602 in the direction that does not shut-down.
- 2. Supply a 9.4V $_{-0}^{+0.1}$ V voltage to the C1602 side of L1602 on the D board.
- 3. Turn AC power switch ON.
- 4. Rotate D board RV1602 (SHT DOWN) slowly to the point that shuts-down the unit.

B+ VOLTAGE DURING DC OPERATE MODE, ADJUSTMENT (RV1601)

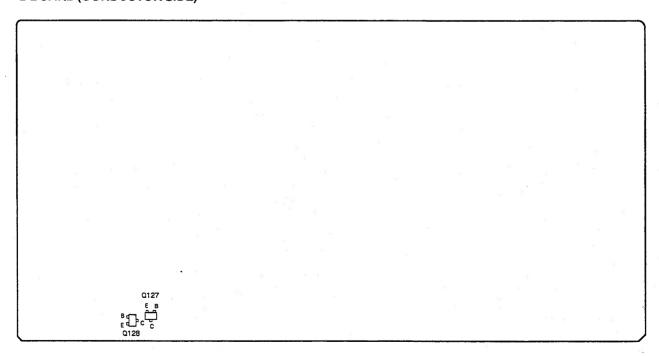
- 1. Supply DC12V±0.2V to DC 12V IN connector.
- 2. Receive a monoscope signal.
- 3. CONTRAST80%
 - BRIGHTNESS50%
- 4. Connect a digital voltmeter to C1605 + positive side on D board.
- 5. Adjust RV1601 on the D board for 40.0±0.1V DC.

B BOARD ADJUSTMENT

-B BOARD (COMPONENT SIDE)-

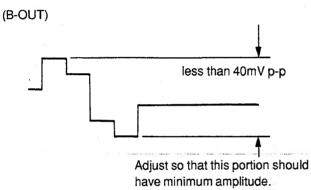


-B BOARD (CONDUCTOR SIDE)-

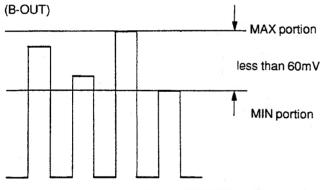


PRIMARY COLOR MATRIX ADJUSTMENT (RV115, RV116, RV123)

- Supply component color bar signal (75% drroma color bar) to the
 equipment so that Y signal is supplied to EXT SYNC and R-Y signal
 to R-Y connectors Operate the equipment in external sync mode.
- 2. Connect oscilloscope to IC124 pin-3 (B-OUT).
- 3. Adjust RV115 (SUB HUE) to obtain the Blue output as shown in figure.

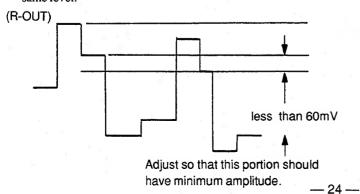


- 4. Supply component color bar signal (75% color bar) to the component input connector to feed R-Y and B-Y signals. Operate the equipment in internal SYNC mode.
- Connect oscilloscope to IC124 pin-3 (SUB-COL). Adjust RV116 (SUB-COL) so that waveform peaks should have the same level.



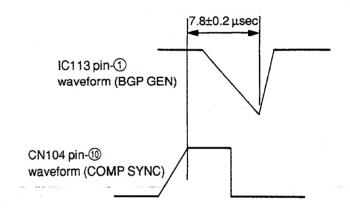
(Adjust so that the first and the 4th peaks should have the same level.)

- 6. Connect oscilloscope to IC124 pin-41 (R-OUT).
- 7. Adjust RV123 ((R-Y)-IN) so that waveform peaks should have the same level.



BURST GATE PULSE WIDTH ADJUSTMENT (RV109)

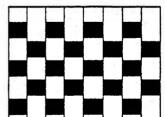
- Receive color bar signal.
- Connect dual trace oscilloscope to CN104 connector pin (COMP-SYNC) and IC113 (M51279) pin (BGP-WIDTH).
 Adjust RV109 (BGP-WIDTH) to obtain the relationship as shown in the figure.



VXO ADJUSTMENT (CV101, CV102)

- 1. 3.58MHz VXO adjustment (CV101)
- (1) Receive NTSC color bar signal.
- (2) Connect +5V power line to IC113 pin-(10) (ID-FILT-REF) via a 4700 Ω resistor.
- (3) Ground IC109 pin-2 by connecting it to ground.
- (4) Ground C162 negative side by connecting it to ground.
- (5) Connect frequency counter to IC113 pin-②. Adjust CV101 (358FO) for 3579545±20Hz. (This adjustment can be alternatively done by observing screen as below.)

Adjust color synchronization by CV101 (358FO).

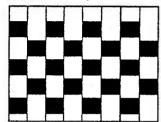


Adjust so that color stripes disappear and the hue change is stabilized extremely.

- 4.43MHz VXO adjustment (CV102)
- (1) Receive PAL colour bar signal.
- (2) Connect +12V power line to IC109 pin-2.
- (3) Connect frequency counter to IC113 pin-20. Adjust CV102 (443FO) for 4433619±20Hz.

 (This adjustment can be alternatively done by observing screen as

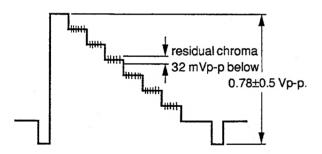
Adjust colour synchronization by CV102(443FO).



Adjust so that colour stripes disappear and the hue change is stabilized extremely.

NTSC COMB FILTER ADJUSTMENT (RV1,T1/CFM101 BOARD)

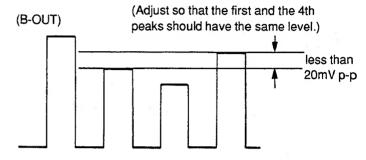
- 1. Receive NTSC 3.58 color bar signal.
- Connect an oscilloscope to C202 negative side.
- 3. Confirm the YOUT is 0.78±0.5 Vp p.
- 4. Confirm the residual chroma is 32 mVp-p below. If it is above 35 mVp p, adjust with RV1 and T1 on CFM201 board while tracking.



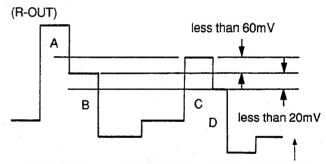
NTSC COLOR DEMODULATION ADJUSTMENT (RV114,RV111,RV104,RV107)

- 1. NTSC 3.58MHz HUE adjustment (RV114)
- (1) Supply NTSC color bar signal including burst and R-Y component. (For example, Tektronix 1410SG output color bar signal with B-Y component removed.)
- (2) Connect an oscilloscope to Q128 emitter (B-Y OUT).
- (3) Adjust RV114 (358NT HUE) so that all the waveform peaks should have equal amplitude (look flat) except burst. (Level difference should be less than 10mV p-p.)

- 2. NTSC 3.58MHz COLOR adjustment (RV111)
- (1) Receive NTSC 3.58 color bar signal.
- (2) Connect an oscilloscope to IC124 pin-30 (B-OUT).
- (3) Adjust RV111(358NT-COL) so that waveform peaks should have the same level (most flat).



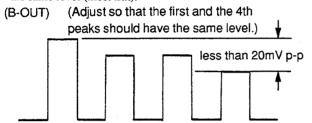
- 3. NTSC 3.58MHz COLOR (R-Y) adjustment (RV104, RV107)
- (1) Receive the color bar signal.
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV104 (358NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin-4 (R-OUT). Adjust RV107 (358NT-COL (R-Y)) so that the level difference should be minimum.



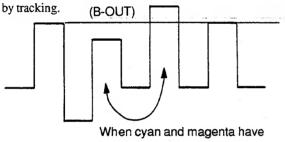
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

NTSC 4.43MHZ COLOR DEMODULATION ADJUSTMENT (RV108, RV112, RV103, RV106)

- 1. NTSC 4.43MHz COLOR adjustment (RV108,RV112)
- (1) Receive NTSC 4.43 color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-30 (B-OUT).
- Adjust RV108 (443NT-COL) so that waveform peaks should have the same level (most flat).

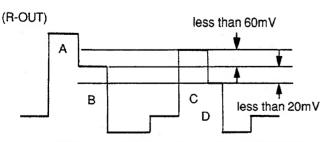


(4) When cyan and magenta have level difference, adjust RV112 (443NT-HUE) and RV108 (443NT-COL) alternatively to remove,



When cyan and magenta have level difference, adjust RV112 and RV108 alternatively to remove.

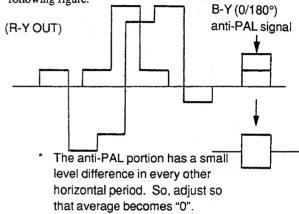
- 2. NTSC 4.43MHz COLOR (R-Y) adjustment (RV103, RV106)
- (1) Receive the NTSC 4.43 color bar signal (75%, chroma color bar).
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV103(443NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin-41 (R-OUT). Adjust RV106 (443NT-COL (R-Y)) so that the level difference should be minimum.



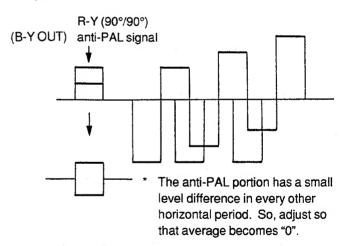
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

PAL COLOR DEMODULATION ADJUSTMENT (RV113,RV2/SEP101, RV110,RV105,RV205)

- 1. PAL PHASE Adjustment (RV113,RV2/SEP101)
- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q127 (R-Y OUT).
- (3) Adjust RV113 (PAL-PHASE) so that B-Y (0/180°) anti-PAL portion (in the R-Y demodulated output) becomes "0" (flat) as following figure.



- (4) Connect an oscilloscope to emitter of Q128 (B-Y OUT).
- (5) Adjust RV2 inside SEP101 so that R-Y (90°/90°) anti-PAL portion (in B-Y demodulated output) becomes "0" (flat) as following figure.



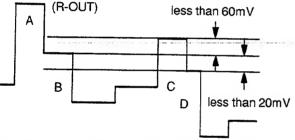
For the adjustments of (3) and (5), it is also possible to set the color level to MAX with the chroma adjusting knob of the unit and erase the color of the anti-pal signal section.

- 2. PAL COLOR ADJUSTMENT (RV110)
- (1) Receive PAL color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-30 (B-OUT).
- (3) Adjust RV110 (PAL-COL) so that waveform peaks should have the same level (most flat).

(B-OUT) (Adjust so that the first and the 4th peaks should have the same level.)

less than 40mV p-p

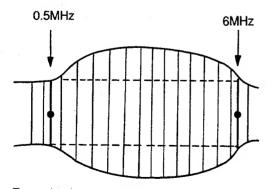
- PAL-COLOR-(R-Y) ADJUSTMENT (RV105)
- (1) Connect an oscilloscope to IC124 pin-(1) (R-OUT).
- (2) Adjust RV105 (PAL-COL-(R-Y)) so that waveform peaks should have the same level (most flat).



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

SUB-SHARP ADJUSTMENT (RV205)

- (1) Receive a sweep signal (or multi-burst).
- Bandwidth should be more than 10MHz (flat).
 - Composite sync should be included.
 - Turn burst off.
- (2) Connect an oscilloscope to IC124 pin-38 (G-OUT).
- (3) Adjust RV205 (SUB-SHARP) as shown.



Example of sweep signal output waveform

[specification] 6MHz/0.5MHz=0±0.5dB

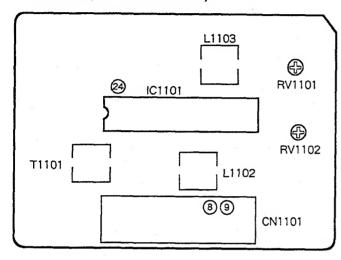
CHROMA H PULSE POSITION ADJUSTMENT (RV101,RV102)

- Receive the SECAM color bar signal.
 (The left edge of the screen should not be colored.)
- (2) Set to the under-scan mode.
- (3) Adjust RV101 (PLUSE-WIDTH) until the point immediately before the color on the left edge of the screen disappears.
- (4) Release the under-scan mode.
- (5) Set the HV DELAY mode.
- (6) Adjust RV102 (PULSE-POSI) untill the point immediately before the rising color of the image after back porch diappears.

Note: If image phase adjustment or HV DELAY amount adjustment during HV DELAY is performed after completing the adjustment in this section, re-adjustments will be required. Therefore, performed this adjustment after the two mentioned have been performed.

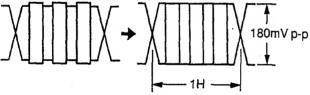
S BOARD ADJUSTMENTS

-S BOARD (COMPONENT SIDE)-



SECAM(T1101,L1102,L1103)

- 1. Receive SECAM color-bar.
- 2. Bell Filter Adjustment (T1101)
- (1) Connect an oscilloscope to IC1101 pin-2.
- (2) Adjust T1101 (Bell Filter) so that the chroma waveform becomes smooth. (Uneven level should be minimum.)



- 3. Color Balance Adjustment (L1102,L1103)
- (1) Connect an oscilloscope to pin-9 (R-Y) of CN1101 connector.
- Adjust L1102 (R-Y) so that the non-colored portion level becomes flat.



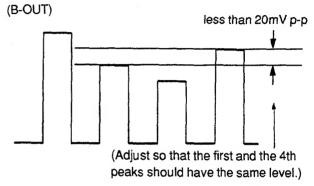
- (3) Connect an oscilloscope to pin-® (B-Y) of CN1101 connector.
- (4) Adjust L1103 (B-Y) so that the non-colored portion level becomes flat.



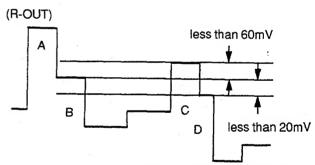
(5) When adjusting the color level of the unit to MAX or MIN using the chroma adjusting knob, check that the white balance of the colorless section does not change.

DEMODULATION LEVEL ADJUSTMENT (RV1101, RV1102)

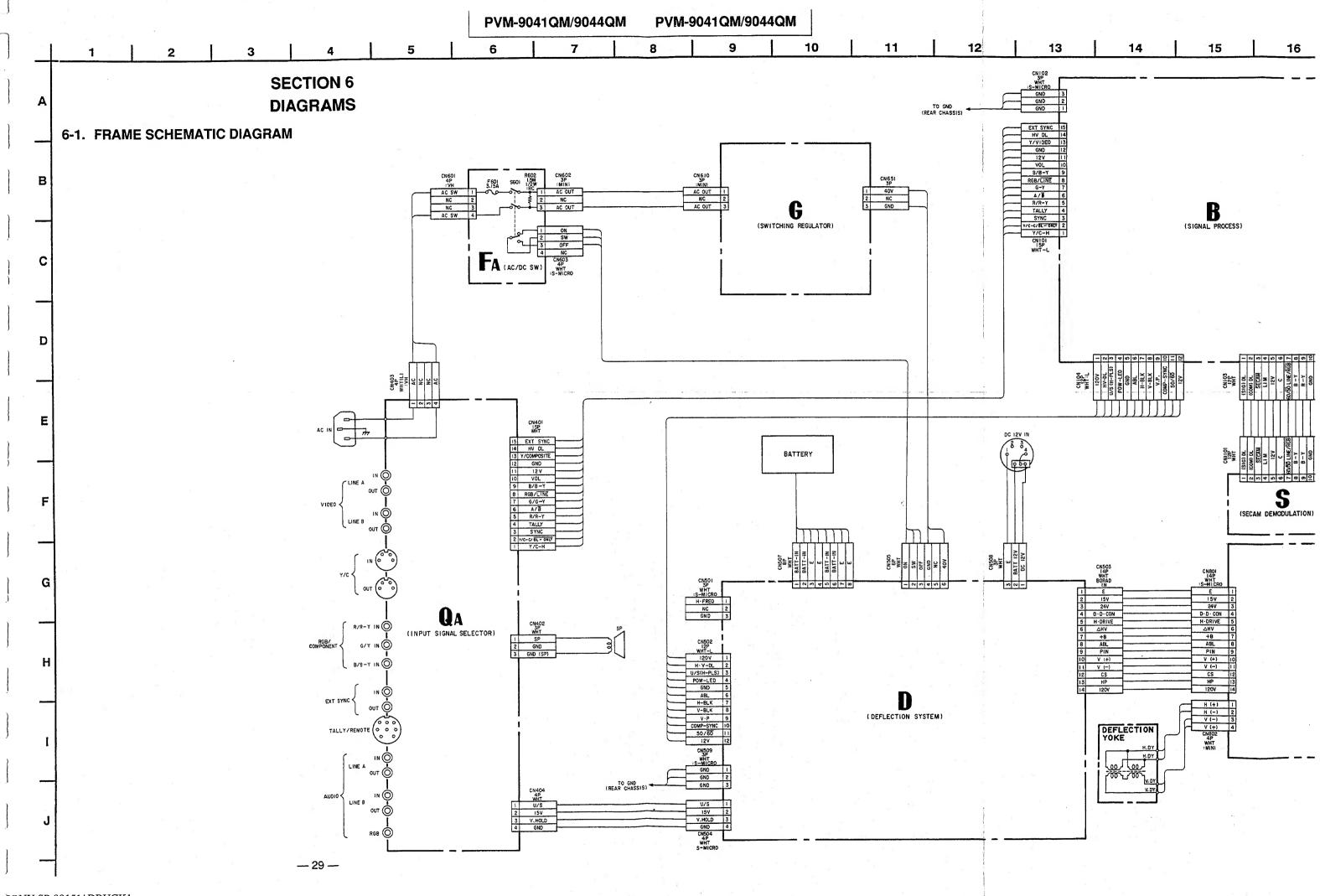
- 1. Receive SECAM color-bar.
- 2. Connect an oscilloscope to IC124 pin-3 (B-OUT).
- 3. Adjust S board RV1101 (SEC-COL) so that waveform peaks should have the same level (most flat).

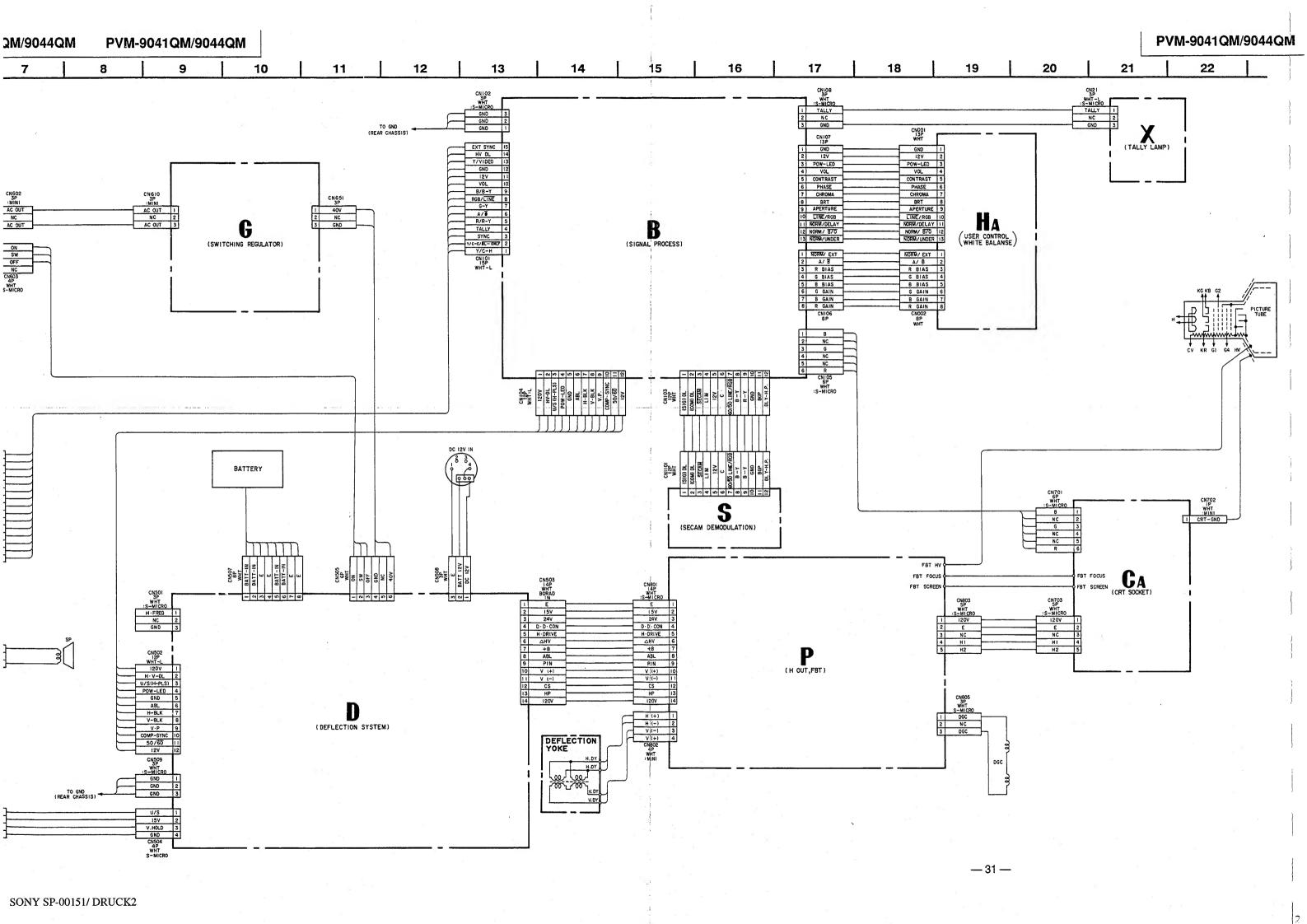


- 4. Connect an oscilloscope to IC124 pin-4 (R-OUT).
- 5. Adjust S board RV1102 (SEC-COL (R-Y)) so that the level difference should be minimum.

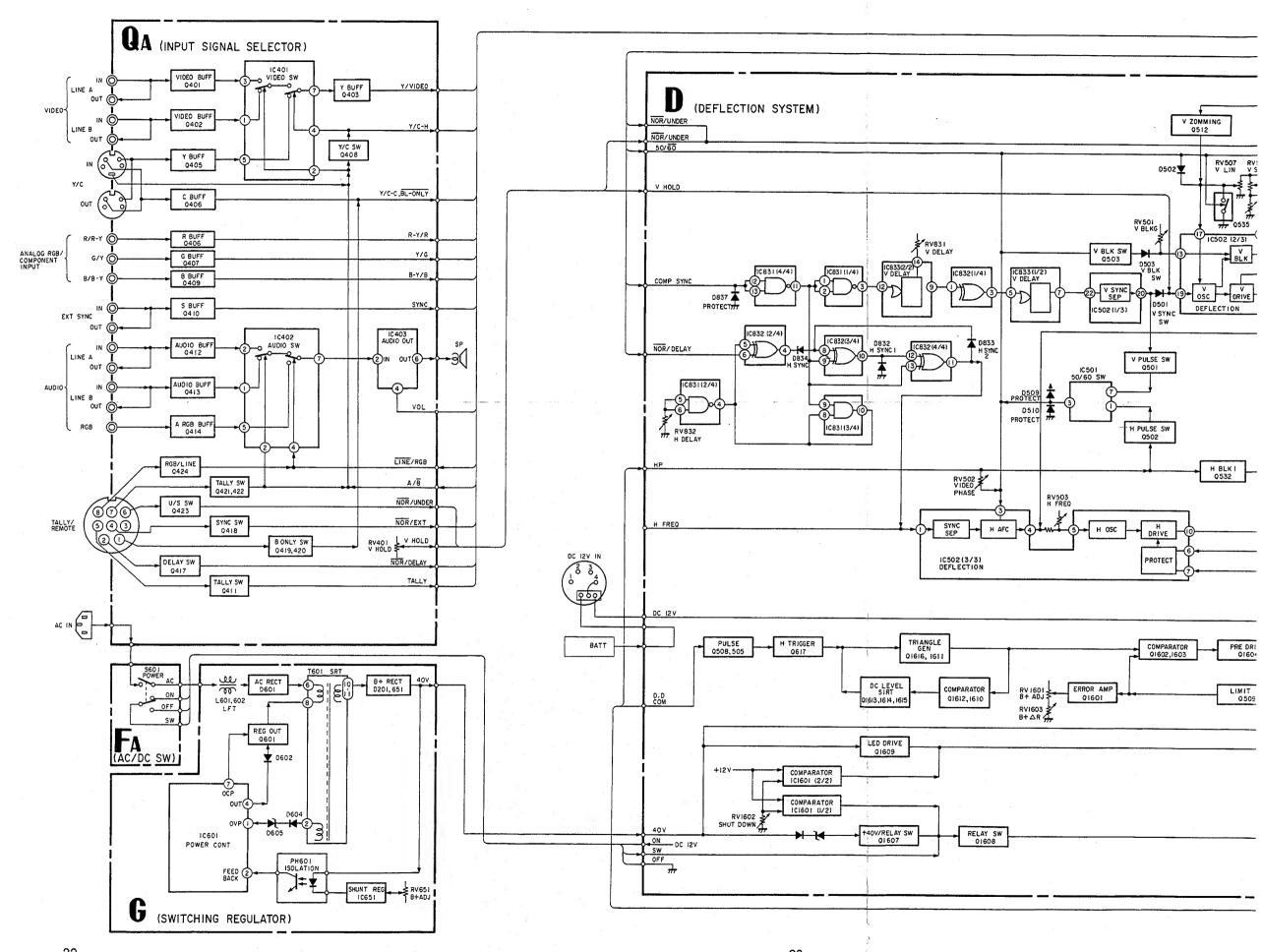


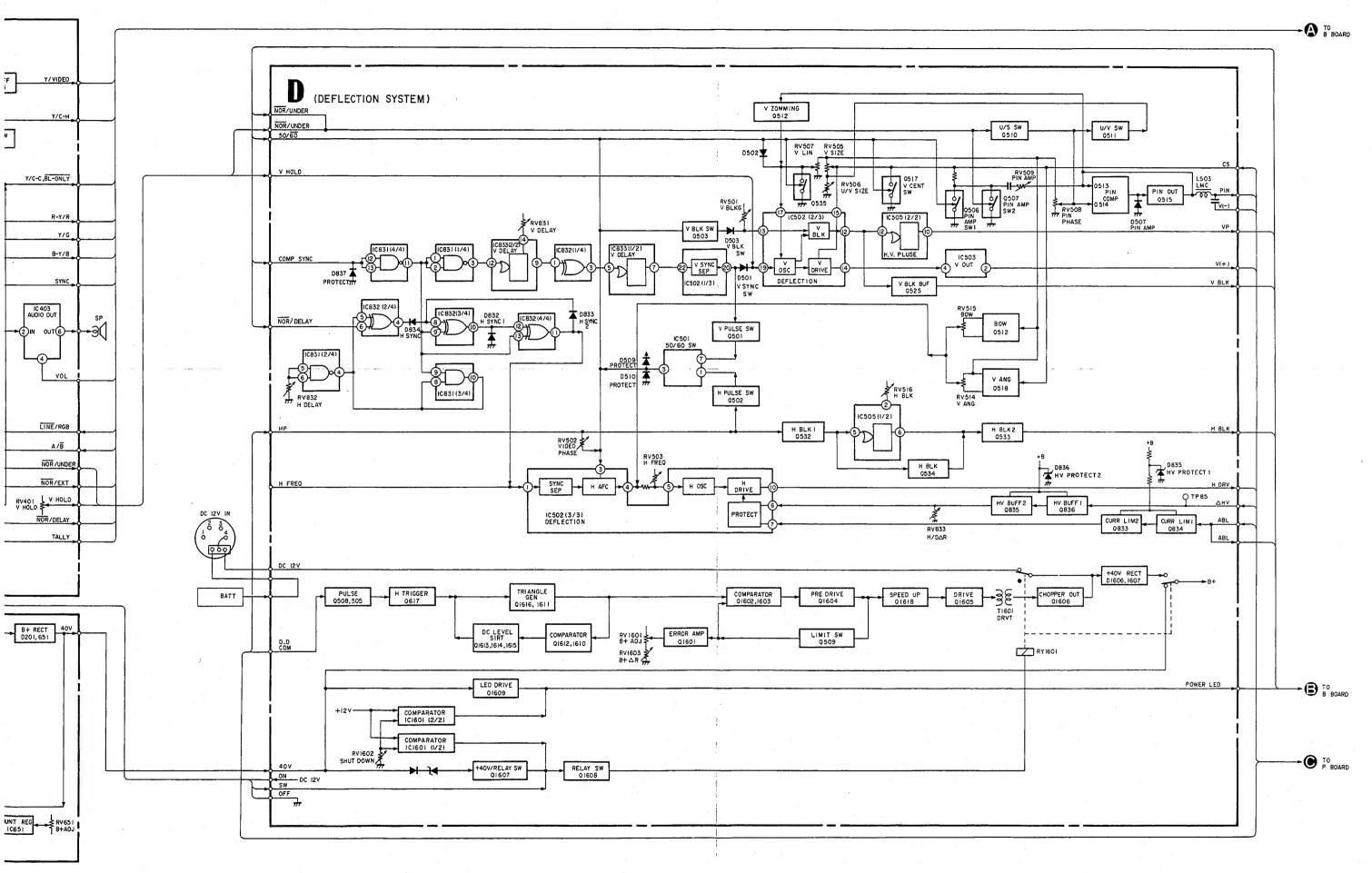
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

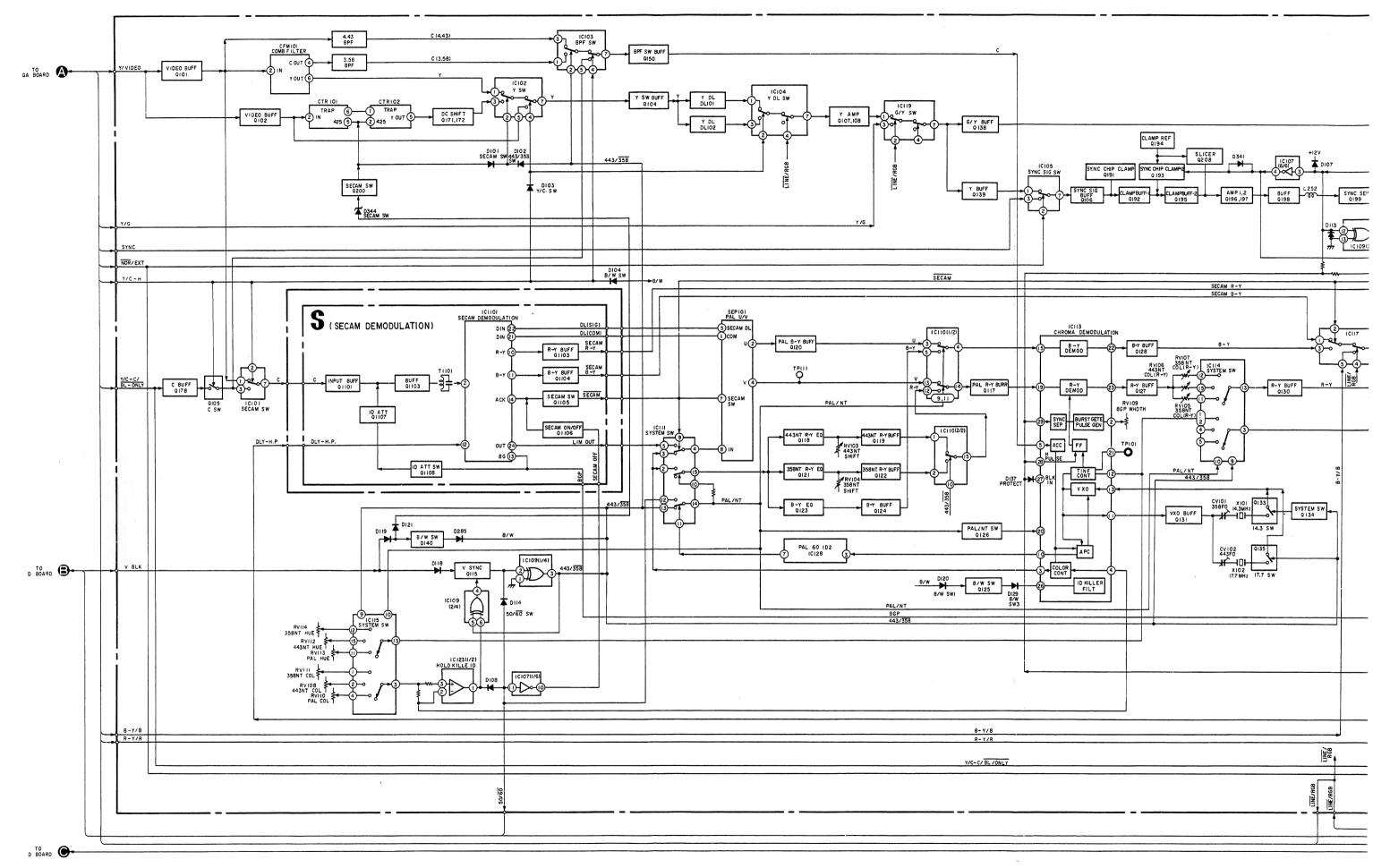




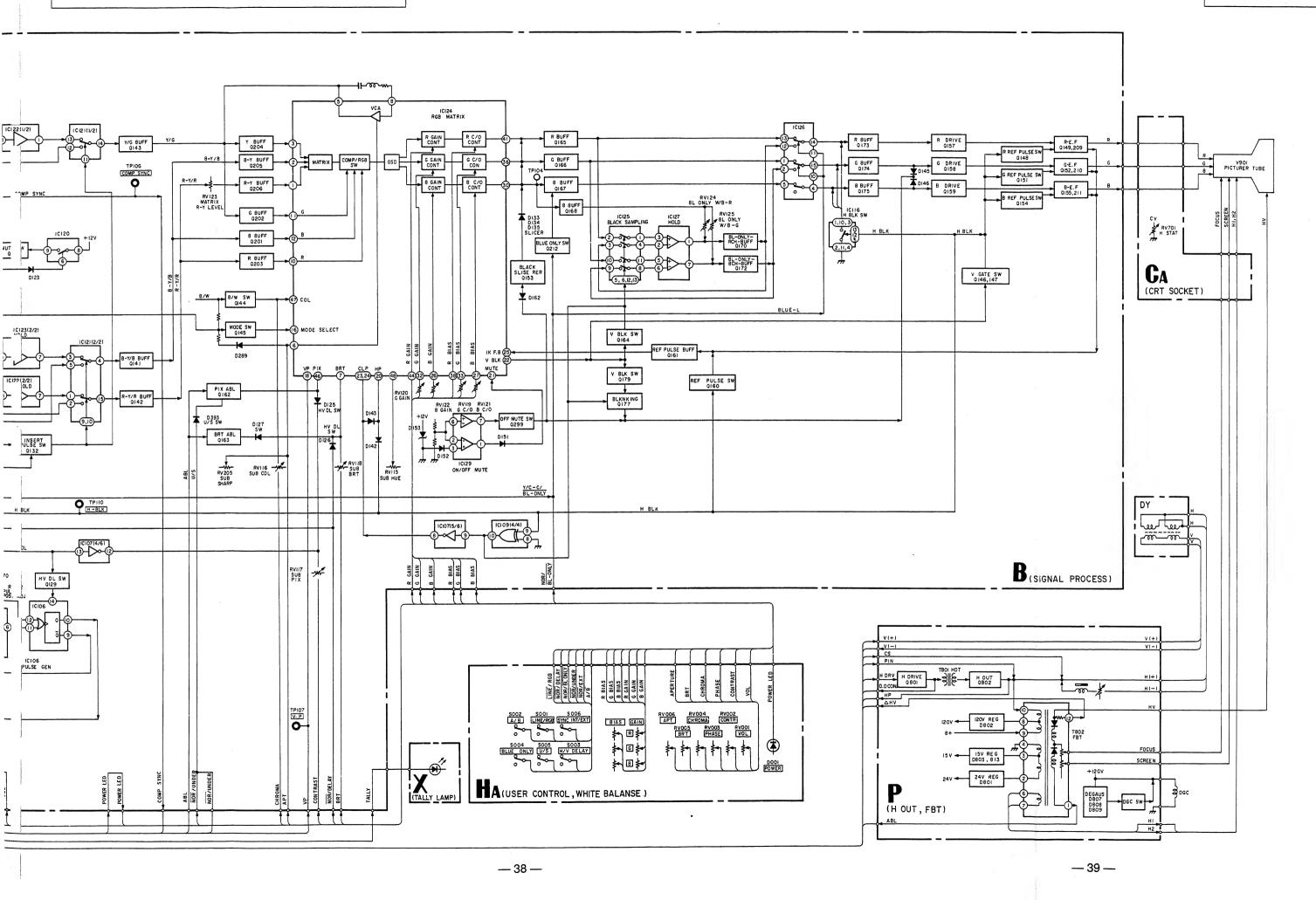
6-2. BLOCK DIAGRAM (1)



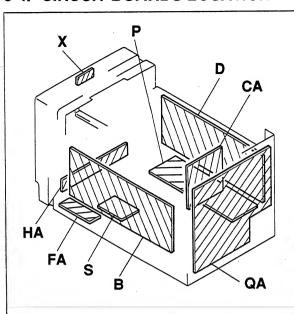




QM



6-4. CIRCUIT BOARDS LOCATION



6-5. PRINTED WIRING BOARDS AND **SCHEMATIC DIAGRAMS**

Note:

- All capacitors are in µF unless otherwise noted. pF: μμF 50WV or less are not indicated except for
- · Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4W

- · All resistors are in ohms.
- : nonflammable resistor.
- fw--: fusible resistor.
- : panel designation.
- · All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by old M in this basic schematic diagram have been carefully factoryselected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by

 and repeat the adjustment until the specified value is achieved.
- (Refer to RV651, RV1603, and RV833 adjust on page · When replacing the part in below table be sure to

parform the related adjustment.

Part replaced ()	Adjustment (█)
IC601, IC651, PH601, C654, R653,	RV651
R655,R656,R657,RV651	(B+ MAX)
Q1601, Q1602, Q1603, D1601, D1602, D1603, D1604, D1605, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1601, RV1603	I/B. MAY IN DC DOWER
IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C814, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851,R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863, NL801	(HOLD-DOWN)

- · All voltages are in V.
- · Voltage are do with respect to ground unless otherwise
- · Readings are taken with a color-bar signal input.
- · Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- · Voltage variations may be noted due to normal production tolerance.
- ____ : B+ bus.
- ■ : B- bus.
- million : signal path.
- No mark: with PAL coior-bar signal received or common voltage.
-) : with SECAM color-bar signal received.
- > : with NTSC 3.58 color-bar signal received.
-)) : with NTSC 4.43 color-bar signal received.
-] : with S (Y/C) color-bar signal received.
- { } : with analog RGB color-bar signal received.
- << >> : with component color-bar signal received.

SOLID

METAL FILM

: measurement impossibility.

: ALT

: ALR

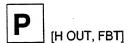
Reference information

RESISTOR : RN

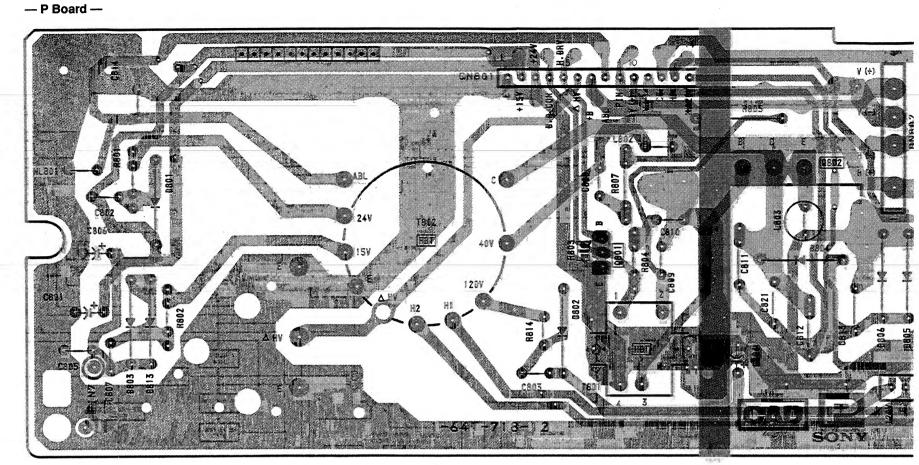
	: HC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLEWIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	:PS	STYROL
	: PP	POLYPROPYLENE
	:PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR

HIGH TEMPERATURE

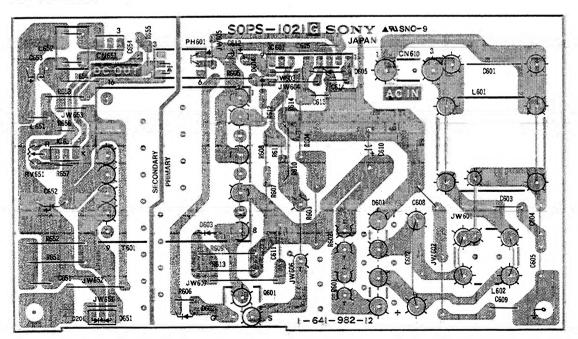
HIGH RIPPLE







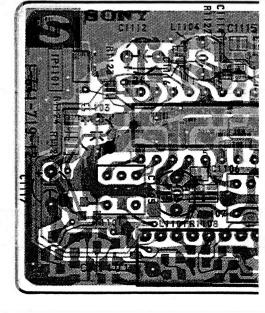
- G Board -



- X Board -



— S Board — - Component side -



- : Pattern from the side which enables see
- : Pattern of the rear side.

— 40 —

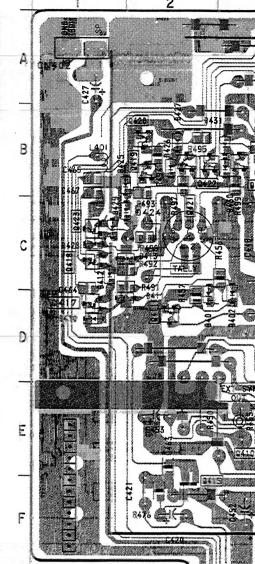
VARIABLE RESISTOR RV401 F-7

DIODE D401 D-2 D402 D-3 D403 F-3

— QA Board —

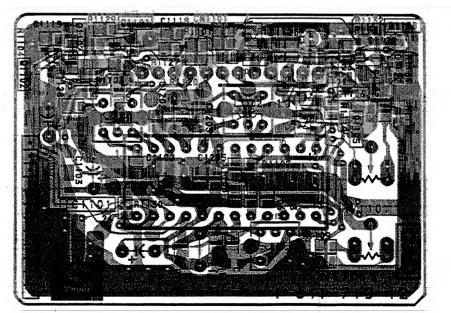
PVM-9041G

[INPUT SIGNAL SELECTOR]

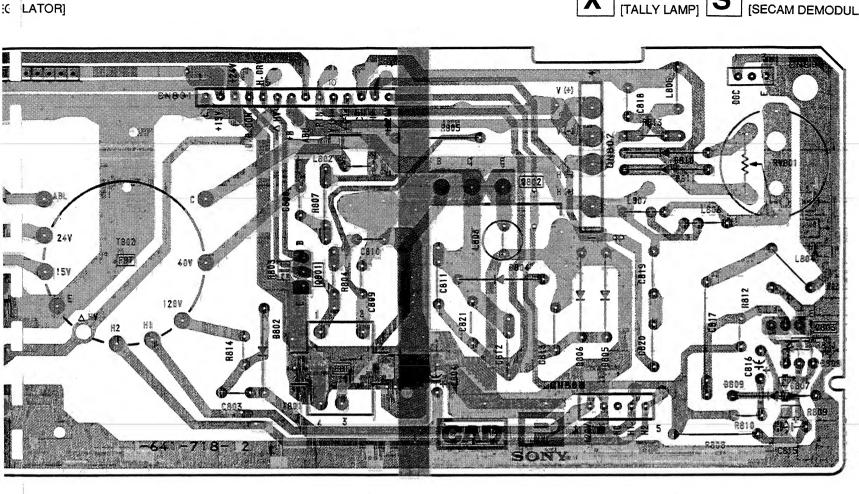


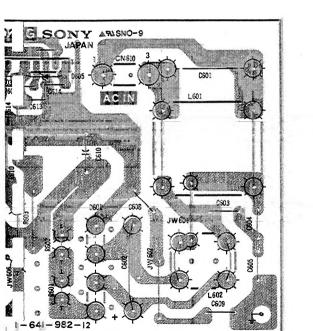
- FA Board -1-641-723-11

— S Board — - Conductor side -



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.







Pattern from the side which enables seeing.

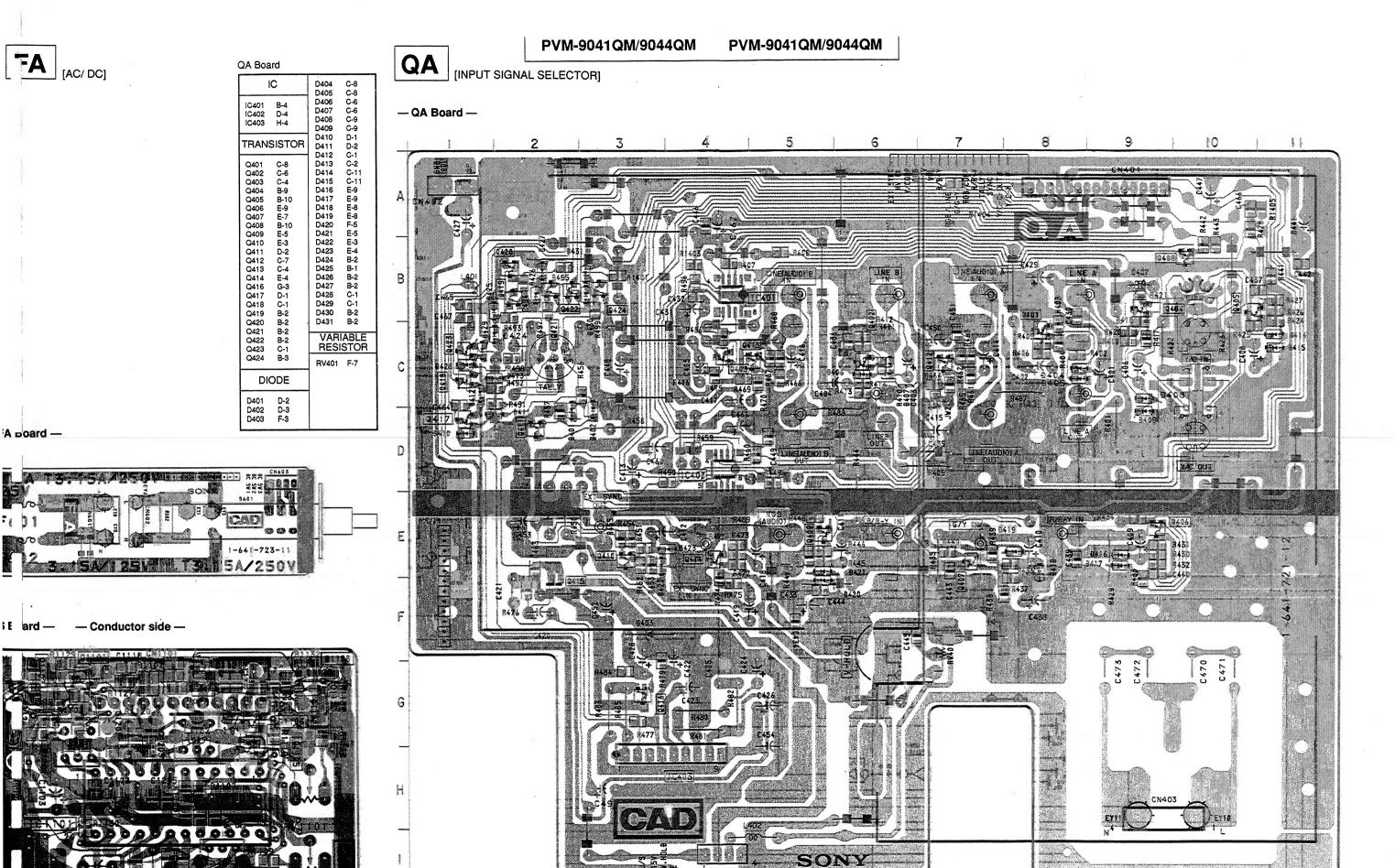
- S Board - Component side -

: Pattern of the rear side.

— 42 —

ONY SP-00151/ DRUCK9

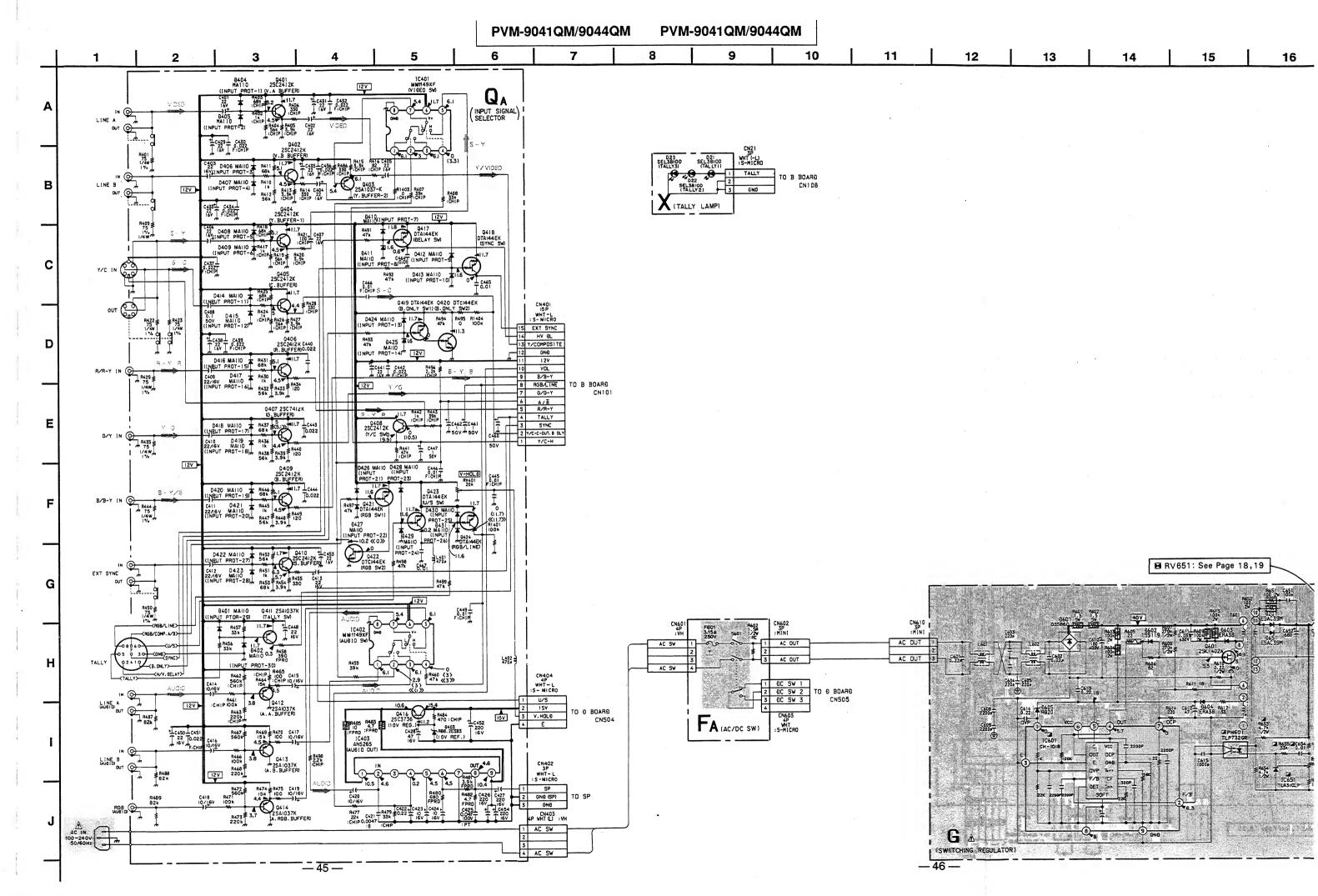
— 43 —

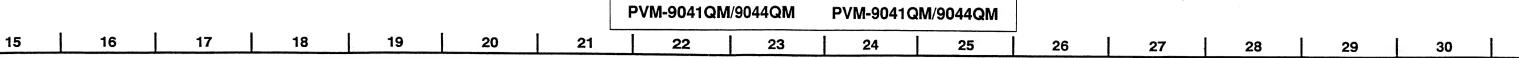


CN404

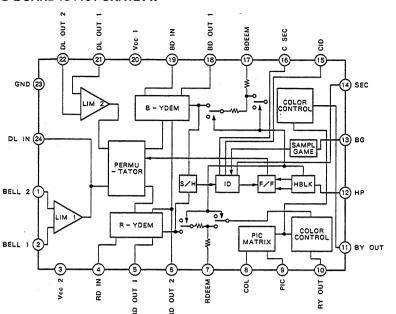
• Pattern from the side which enables seeing.

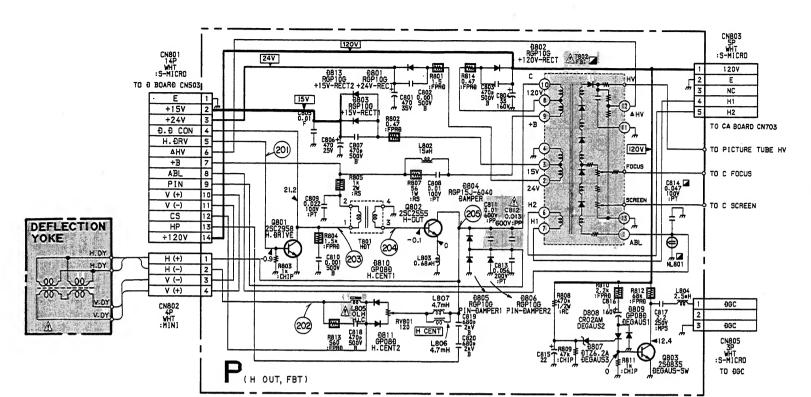
• ###### : Pattern of the rear side.



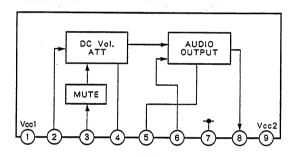


S BOARD IC1101 CXA1214P

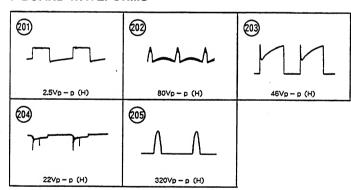




QA BOARD IC403 AN5265

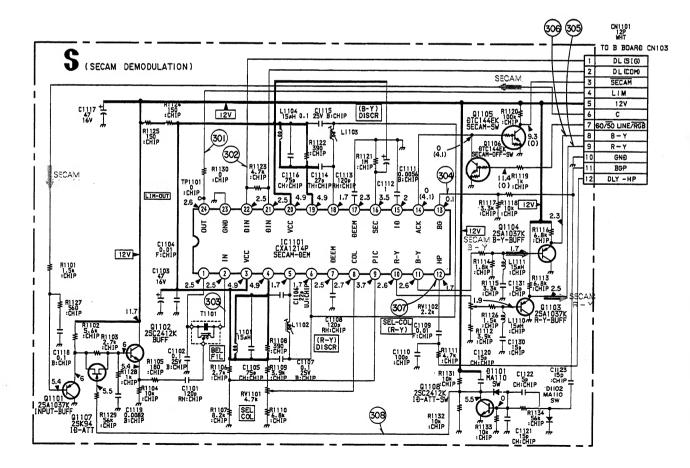


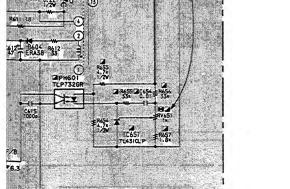
P BOARD WAVEFORMS



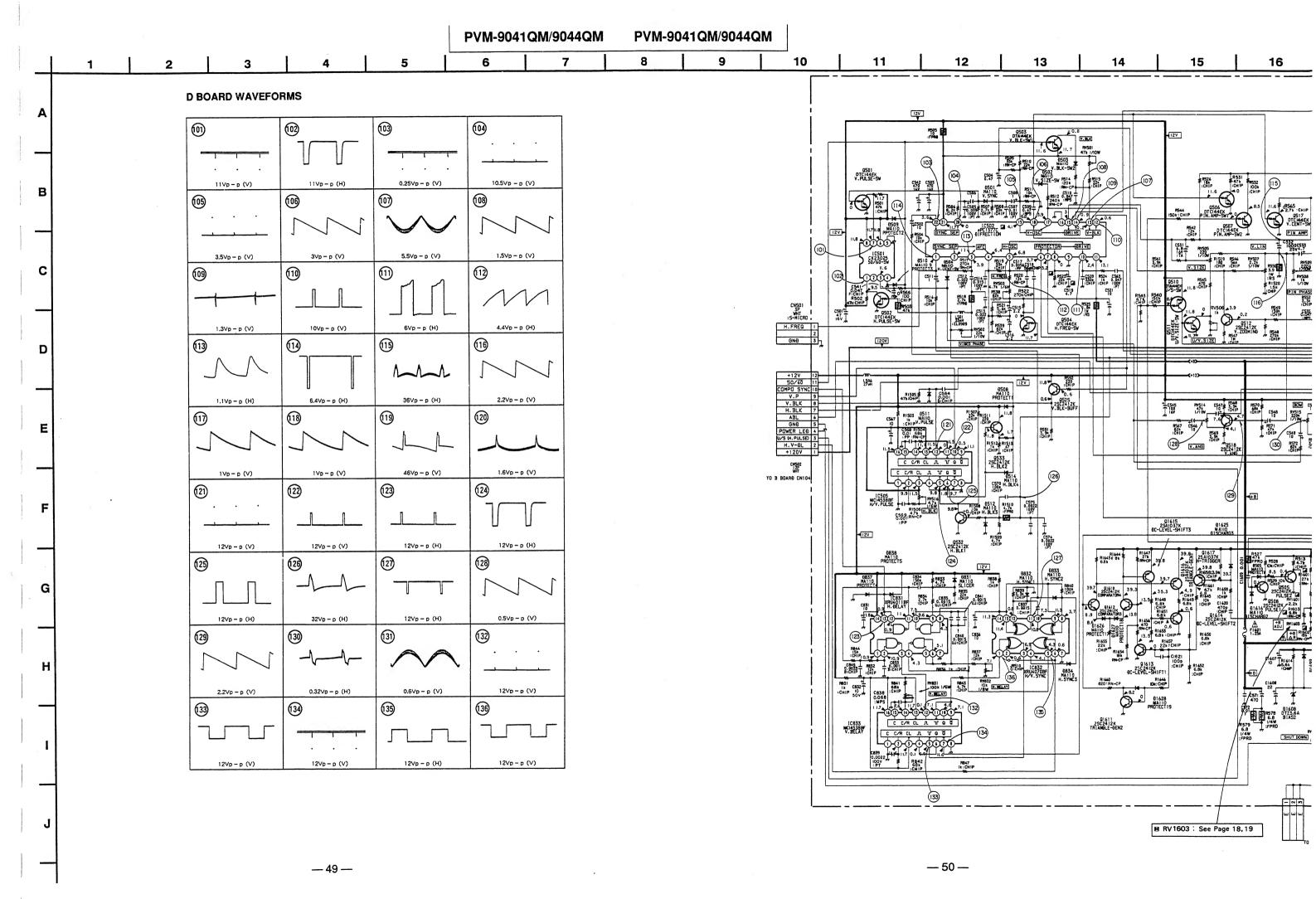
S BOARD WAVEFORMS

(a)	602 ********** **************************	603 ************************************	@
SECAM 0.8Vp - p (H)	SECAM 0.7Vp - p (H)	SECAM 0.1Vp - p (H)	SECAM 3Vp-p(H)
305)	306	307	308
Janja	᠂᠘ᡀᡅ᠂᠊ᢇᠿᢔᡅ	_//_	
SECAM 0.6Vp - p (H)	SECAM 0.7Vp - p (H)	SECAM 3.4Vp - p (H)	SECAM 6Vp-p(H)

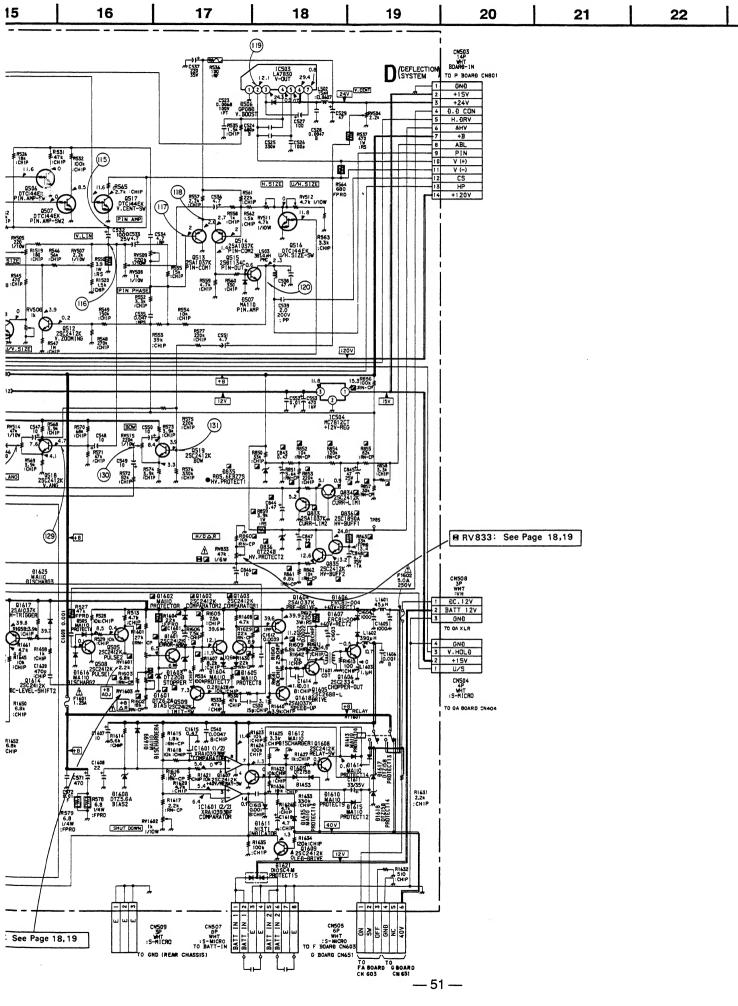


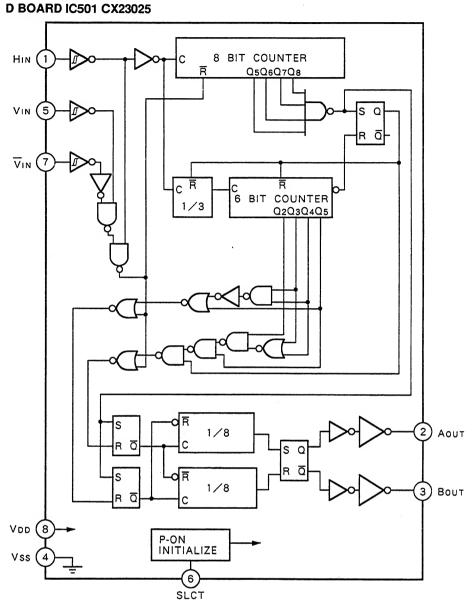


51: See Page 18,19

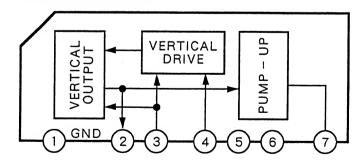




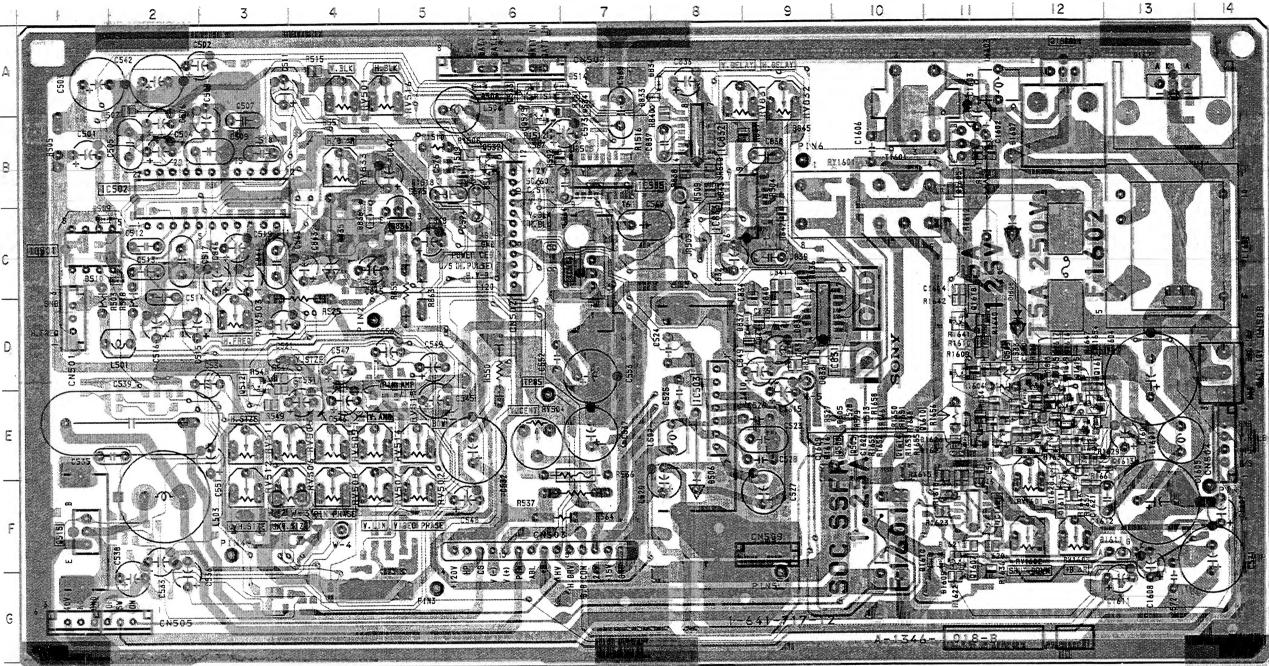




D BOARD IC503 LA7830





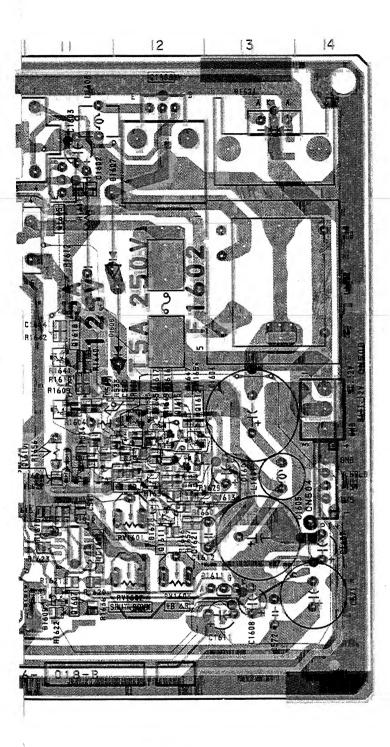


D Board (Component S

IC	DIO
IC501 C-1 IC505 B-7 IC831 D-9 IC832 B-8 IC833 C-8 IC1601 F-11	D505 D508 D509 D510 D512 D514
TRANSISTOR	D833 D834 D836
Q505 E-11 Q508 E-11 Q509 D-11 Q512 D-3 Q525 A-6 Q532 B-6 Q533 A-6 Q1607 F-11 Q1610 E-12 Q1611 F-12 Q1613 E-13 Q1614 E-12 Q1615 D-12 Q1615 D-12 Q1616 D-12 Q1617 D-12 Q1618 D-11	D837 D833 D1609 D1610 D1616 D1621 D1625 D1626 D1627 D1628

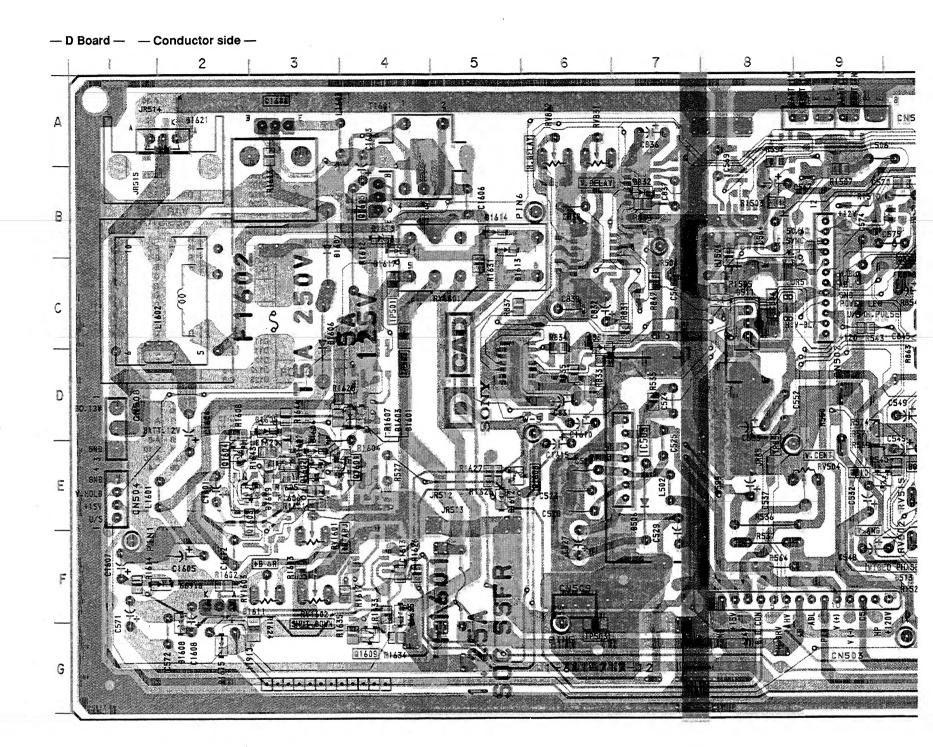
• Tattern from the side which enables seeing.

• Manager : Pattern of the rear side.



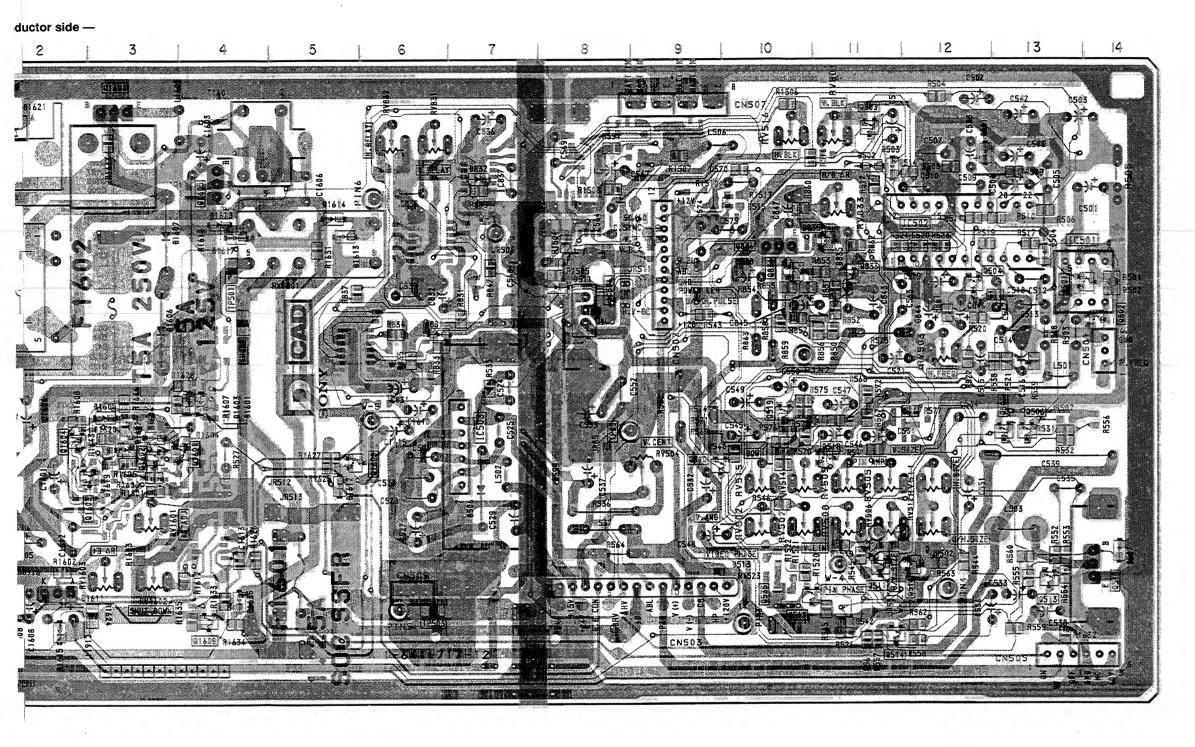
D Board (Component Side

IC	DIODE
IC501 C-1 IC505 B-7 IC831 D-9 IC832 B-8 IC833 C-8 IC1601 F-11	D505 E-11 D508 A-6 D509 C-1 D510 C-2 D512 B-6 D514 A-7 D833 A-7
TRANSISTOR	D834 A-8 D836 C-4
Q505 E-11 Q508 E-11 Q509 D-11 Q512 D-3 Q525 A-6 Q532 B-6 Q532 B-6 Q1607 F-11 Q1610 E-12 Q1611 F-12 Q1613 E-13 Q1614 E-12 Q1615 D-12 Q1615 D-12 Q1616 D-12 Q1617 D-12 Q1617 D-12 Q1617 D-11	D837 D-9 D838 D-9 D1609 F-11 D1610 F-11 D1616 E-11 D1621 A-13 D1625 D-12 D1626 E-12 D1628 E-12



[•] Pattern from the side which enables seeing.

^{• *} Pattern of the rear side.



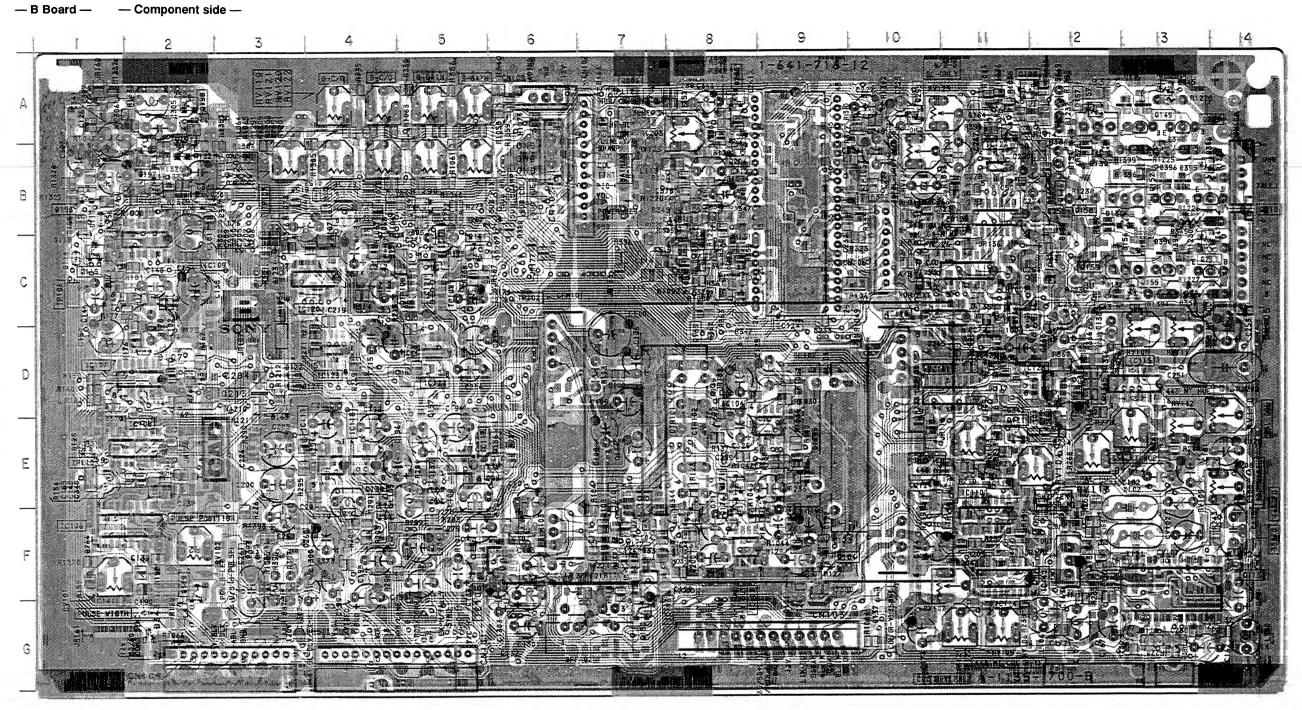
D Board (Conductor Side)

10	С	DIC	DDE	FU	SE
IC502 IC503	B-12 E-7	D501 D502	A-12 B-11	F1601	F-5
IC504	C-8	D503 D504 D506	B-11 C-13 E-7	VARI. RESIS	ABLE STOR
TRANS	SISTOR	D507 D511	F-14 C-8	RV501 RV502	A-11 F-10
Q501 Q502 Q503 Q504 Q506 Q507 Q510 Q511 Q513 Q514 Q515 Q516 Q517 Q518 Q519 Q833 Q834 Q835 Q835 Q836 Q1601 Q1602 Q1603 Q1604 Q1605 Q1608 Q1608 Q1608 Q1608	C-14 C-14 A-11 C-12 E-13 E-13 E-13 E-13 E-11 F-13 G-11 F-12 F-10 C-10 C-11 C-10 E-3 E-2 E-2 B-4 A-3 E-5 G-4	D599 D831 D832 D835 D1601 D1602 D1603 D1604 D1605 D1606 D1607 D1608 D1611 D1612 D1613 D1614 D1615 D1617 D1618 D1619 D1621 D1635 D1699	E-8 C-6 B-7 D-4 D-3 D-3 D-3 D-3 G-2 E-5 B-5 B-5 B-4 B-4 D-3 R-2 F-4 F-2	RV503 RV504 RV505 RV506 RV507 RV509 RV511 RV512 RV515 RV516 RV831 RV832 RV833 RV1603	F-10 F-11 F-11 E-12 F-11 E-10 E-10 A-10 A-6 A-6 B-11 F-3 F-3

[•] Pattern from the side which enables seeing.

Pattern of the rear side.



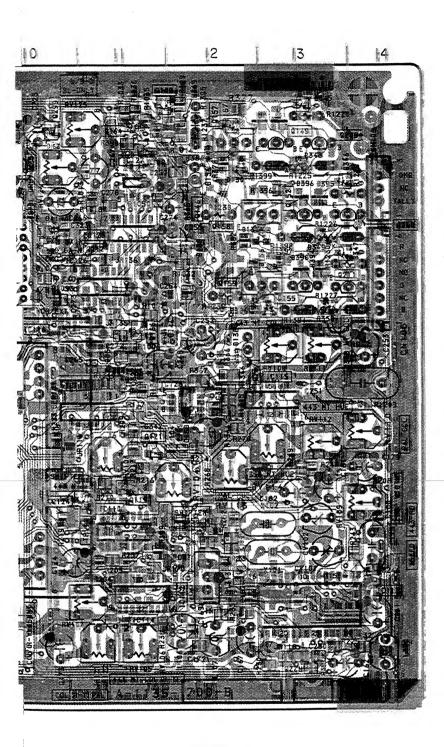


B Board (Component Side)

7	ŀ	С	Q141 Q145	C-5 C-7	D153 D154	B B
	IC101 IC102 IC103 IC104 IC105 IC106 IC107 IC108 IC109 IC110 IC111 IC112 IC113	E-7 F-8 F-7 E-9 F-1 D-2 E-2 C-2 F-11 D-11 F-12 F-14	Q149 Q150 Q153 Q157 Q164 Q166 Q171 Q176 Q191 Q193 Q196 Q197 Q198	A-13 G-7 B-6 A-12 A-11 C-11 E-8 B-2 B-1 B-2 B-2 F-8	D156 D157 D162 D342 D343 D344 D345 D346 D347 D348 D349 D350 D393	CAADGFABCBBCF
	IC114 IC115 IC116	F-11 D-13 B-10	Q200 Q204 Q205 Q206	B-8 A-8 A-7	VAR RESI	
	IC117 IC118 IC119 IC120 IC121	E-5 E-4 E-4 C-4 C-5	Q207 Q208 Q212 Q299	B-6 B-2 C-11 A-10	RV101 RV102 RV103 RV104 RV105	ட்டம்ம்
	IC122 IC123 IC124	D-5 D-4 A-9	DIC	ODE	RV106 RV107	G
	IC125 IC126 IC127 IC128 IC129	B-11 C-11 B-11 D-12 B-4	D103 D107 D114 D118 D119 D121	F-8 D-2 C-1 B-1 B-1 D-3	RV108 RV109 RV110 RV111 RV112 RV113	Dwwdwww
	TRANS	SISTOR	D122 D123	D-3 C-3	RV114 RV115 RV116	В
	Q101 Q104 Q109 Q115 Q119 Q121 Q124 Q129 Q132 Q136 Q137 Q138	F-6 F-9 A-11 C-1 E-11 E-11 E-10 F-2 B-2 E-6 E-5 F-4	D128 D130 D131 D132 D137 D138 D139 D142 D143 D146 D151 D152	E-1 B-12 B-13 C-13 G-10 D-12 B-12 C-8 C-8 C-12 C-4 B-4	RV118 RV119 RV120 RV121 RV122 RV123 RV124 RV125 RV205	BAAAABAB

[•] ______: Pattern from the side which enables seeing.

[•] Pattern of the rear side.



10	С	Q141 Q145	C-5 C-7	D153 D154	B-3 B-12				
IC101 IC102 IC103 IC104 IC105 IC106 IC107 IC108 IC109 IC111 IC112 IC113	E-7 F-8 F-7 E-9 F-1 D-2 E-2 C-2 F-11 D-11 F-12 F-14	Q149 Q150 Q153 Q157 Q164 Q166 Q171 Q176 Q191 Q193 Q196 Q197 Q198	A-13 G-7 B-6 A-12 A-11 E-8 E-8 B-2 B-2 B-2 B-2 B-2	D156 D157 D162 D342 D343 D344 D345 D346 D347 D348 D349 D350 D393	C-12 A-12 A-10 D-11 G-2 F-8 A-13 B-13 B-13 B-13 B-13 F-3				
IC114 IC115 IC116	F-11 D-13 B-10	Q200 Q204 Q205	Q204 Q205	Q204 Q205	Q204 Q205	Q204 Q205	B-8 A-8 A-7		ABLE STOR
IC117 IC118 IC119 IC120 IC121	E-5 E-4 E-4 C-5 C-5	Q206 Q207 Q208 Q212 Q299	B-6 B-2 C-11 A-10	RV101 RV102 RV103 RV104 RV105	F-1 F-2 E-11 E-12 G-11				
IC122 IC123 IC124	D-5 D-4 A-9	DIC	ODE	RV106 RV107	G-11 G-11 D-13				
IC125 IC126 IC127 IC128 IC129	B-11 C-11 B-11 D-12 B-4	D103 D107 D114 D118 D119 D121	F-8 D-2 C-1 B-1 B-1 D-3	RV108 RV109 RV110 RV111 RV112 RV113 RV114					
TRANS	TRANSISTOR		D-3 C-3	RV115 RV116	B-5 B-5				
Q101 Q104 Q109 Q115 Q119 Q121 Q124 Q129 Q132 Q136 Q137 Q138	F-6 F-9 A-11 E-11 E-10 F-2 B-2 E-5 F-4	D128 D130 D131 D132 D137 D138 D139 D142 D143 D146 D151 D152	E-1 B-12 B-13 C-13 G-10 D-12 C-8 C-8 C-12 C-4 B-4	RV118 RV119 RV120 RV121 RV122 RV123 RV124 RV125 RV205					

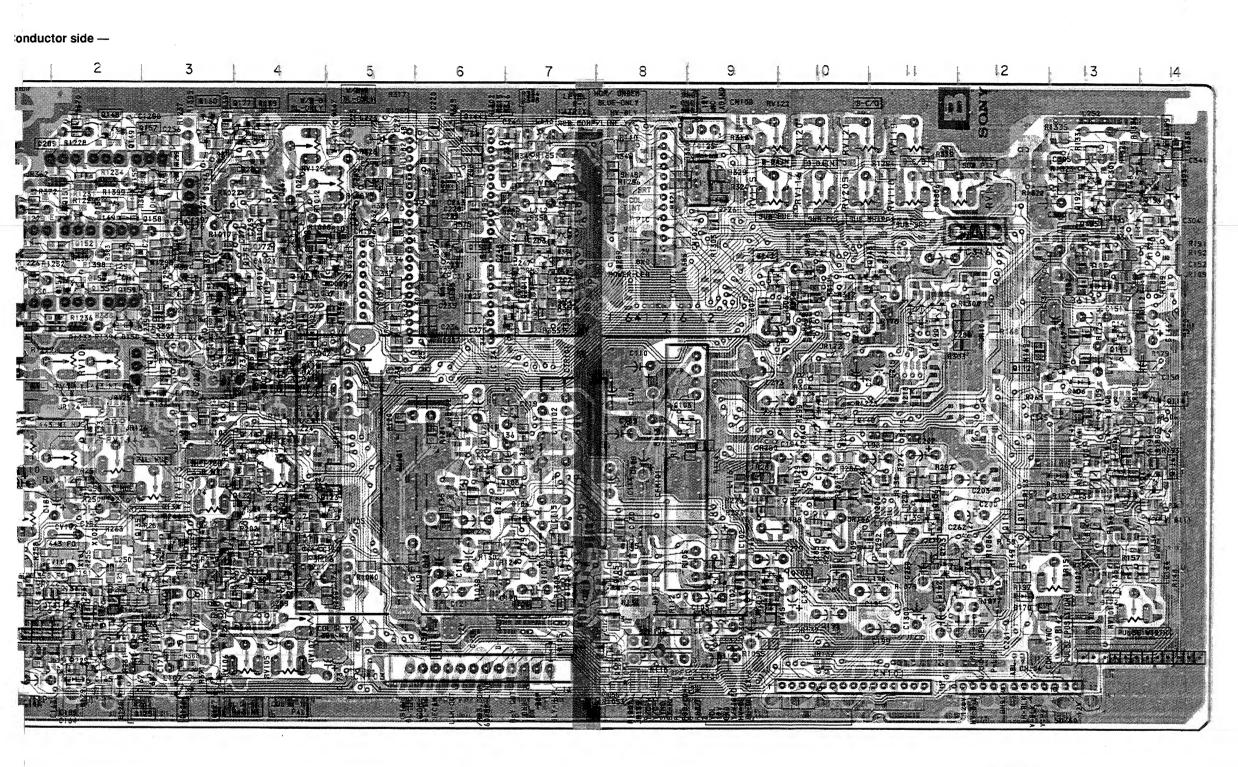
— B Board — — Conductor side —

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- Pattern from the side which enables seeing.
- ###### : Pattern of the rear side.

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— 59 **—**



B Board (Conductor Side)

TRANSISTOR 0102 F-9 0103 D-8 0105 F-8 0106 F-9 0107 D-6 0108 E-6 0112 D-13 0114 D-14 0117 F-3 0118 E-4 0120 E-4 0122 E-4 0122 E-4 0125 G-2 0125 G-2 0126 G-2 0127 G-3 0128 G-3 0130 F-4 0131 F-2 0133 F-2 0133 F-2 0134 E-3 0135 F-3 0139 E-11 0140 D-10 0142 C-9 0143 C-10 0144 A-6 0146 B-3 0147 D-2 0148 A-2 0151 B-2 0152 B-2 0154 C-2 0155 C-2	Q158 Q159 Q160 Q161 Q162 Q163 Q165 Q176 Q172 Q173 Q174 Q177 Q178 Q190 Q190 Q190 Q190 Q201 Q201 Q211 D101 D102 D106 D108	B-3 C-2 A-3 G-12 F-11 D-4 B-5 C-4 B-4 C-3 C-4 A-4 G-8 B-13 B-13 A-14 C-7 B-7 A-2 B-1 C-1 D-E F-7 F-7 F-7 D-DE	D109 D110 D111 D112 D113 D115 D116 D117 D120 D124 D125 D126 D127 D133 D134 D135 D144 D145 D147 D148 D149 D150 D155 D159 D160 D161 D170 D171 D172 D284 D285 D289 D341	D-13 E-14 C-13 E-14 C-13 D-13 D-13 D-13 D-13 D-13 D-13 B-9 D-9 E-12 G-6 B-6 C-3 D-3 B-9 D-3 B-2 C-11 D-11 D-12 D-13 B-12 B-12 D-13 B-12 B-12 B-13 B-14 D-13 B-14 D-15 B-16 B-16 B-16 B-16 B-16 B-16 B-16 B-16	

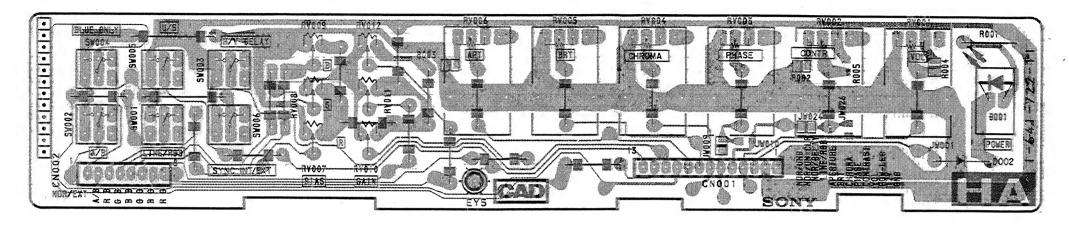
[:] Pattern from the side which enables seeing.

[•] Pattern of the rear side.

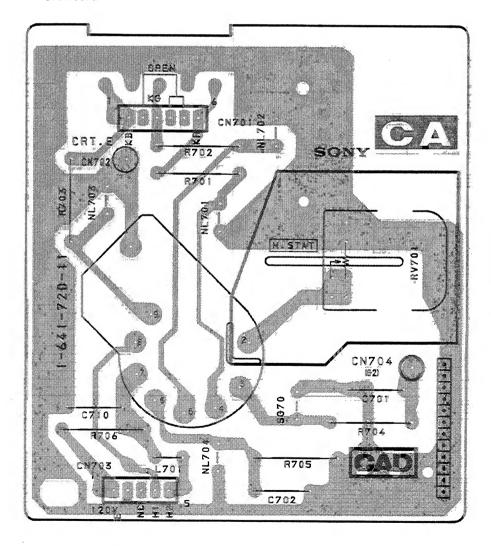


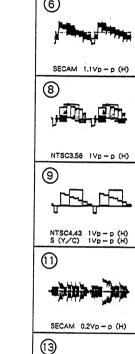


- HA Board -



— CA Board —





12∨p - p (H)

PAL 0.7Vp - p (H)

B BOARD WAVEF

S (Y/C) 0.5Vp - p (H)

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RGB 0.8Vp - p (H)

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B BOARD WAVEFORMS

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S (Y/C) 0.5Vp-p (H)	RGB 1Vp-p(H)	COMPONENT 0.5Vp - p (H)	RGB 1Vp-p (H)	COMPONENT 1Vp - p (H)
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Uww/ww	-100-100-		75-75-	Hala
RGB 0.8Vp - p (H)	COMPONENT 0.75Vp - p (H)	PAL 1Vp - p (H)	S (Y/C) 1Vp-p (H)	PAL 0.9Vp - p (H)
6	y The year		7 ************************************	8
SECAM 1.1Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H)	S (Y/C) 1Vp-p (H)	S (Y/C) 0.5Vp - p (H)	SECAM 1Vp - p (H)
(8)	~ C ~	15-15-	<u></u>	
NTSC3.58 1Vp-p (H)	NTSC4.43 1Vp - p (H)	S (Y/C) 1Vp-p (H)	PAL 0.75Vp - p (H) SECAM 0.75Vp - p (H)	NTSC3.58 1Vp - p (H)
<u></u>	10	-	the Glad are buck	11
NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	PAL 0.2Vp - p (H)	NTSC3.58 0.3Vp - p (H)	NTSC4.43 0.15Vp - p (H)	PAL 0.3Vp - p (H)
11)	I a a a a a a a a a a a a a a a a a a a	12	13	PAL 0.3Vp - p (H)
-)m>)m>	******************	-	Maria Maria	
SECAM 0.2Vp - p (H)	NTSC3.58 0.2Vp - p (H) NTSC4.43 0.3Vp - p (H)	\$ (Y/C) 0.2Vp-p (H)	PAL 0.9Vp - p (H) SECAM 0.9Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)
13		14	15	16
	لالبهمين البهميب	11_		
RGB 0.8Vp - p (H)	COMPONENT 1Vp - p (H)	4Vp - p (H)	12Vp - p (H)	12∨p−p (H)
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			-1/1/1/11-1/1/11	
12Vp - p (H)	12Vp - p (H)	12Vp - p (H)	SECAM 0.6Vp - p (H)	SECAM 0.5Vp - p (H)
	لالبهميز البهبية	المارية.	3	4
PAL 0.7Vp - p (H)	SECAM 0.8Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	12Vp - p (H)	12Vp - p (H)

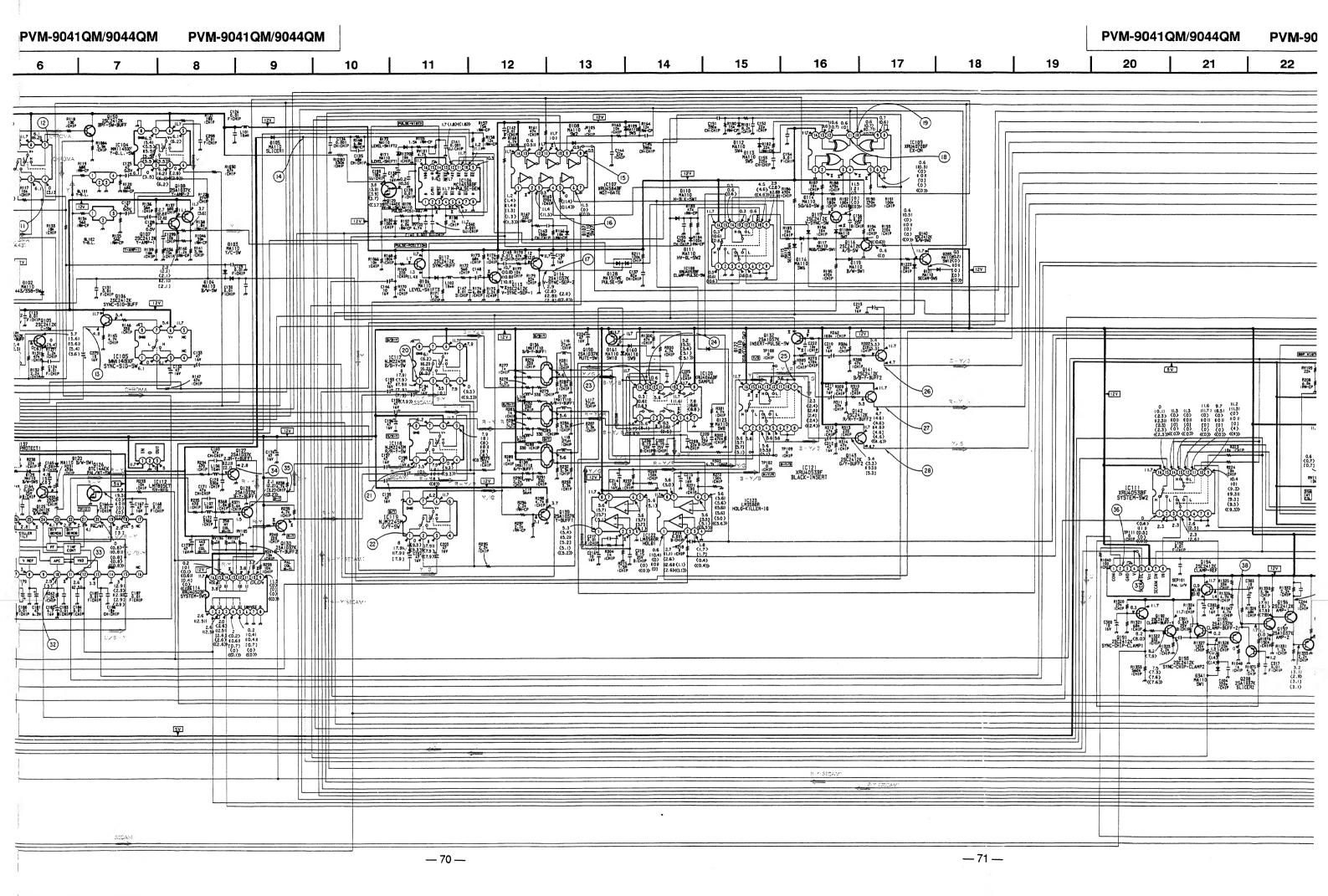
29	a	<u> -</u>	
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12Vp – p (H)	PAL 1.2Vp - p (H)	SECAM 1.2Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H)
26		27	V (1)
	-100-100		
RGB 1.4Vp - p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.3Vp - p (H)	SECAM 1.2Vp - p (H)
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	7/1-1/1-	السراسي	
RGB 1.4Vp-p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.2Vp - p (H SECAM 1.2Vp - p (H COMPONENT 1.4Vp - p (H) NTSC4.43 1.5Vp - p (H)
	(30) V	③	
PAL 1Vp - p (H) SECAM 1Vp - p (H) NTSC3.58 1Vp - p (H)	PAL 1Vp - p (H) SECAM 1Vp - p (H) NTSC3.58 1Vp - p (H)	t-	
NTSC3.58 1Vp-p (H) NTSC4.43 1Vp-p (H) S (Y/C) 1Vp-p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	PAL 0.36Vp - p (H)	NTSC3.58 0.3Vp - p (H) NTSC4.43 0.3Vp - p (H) § (Y/C) 0.32Vp - p (H)
32	33		0000
****	E man de la		1000,
SECAM 1Vp-p (H)	PAL 0.7Vp - p (H)	SECAM 1.1Vp - p (H)	NTSC3.58 1.0Vp - p (H) (3.58MH-) NTSC4.43 0.6Vp - p (H) (4.43MH2) S (Y/C) 1.0Vp - p (H) (3.58MH2)
34	35		36
4-4-	<u> </u>	-તામમુ નામમુ	+
NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.5Vp-p(H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 0.6Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.4Vp - p (H)
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NTSC3.58 0.3Vp - p (H) NTSC4.43 0.45Vp - p (H) S (Y/C) 0.35Vp - p (H)	PAI OFFICE TO	CTOMA COM	NTSC3.58 0.4Vp-p (H)
38	PAL 0.55Vp - p (H)	SECAM 0.1Vp - p (H)	s (Y/C) 0.4Vp - p (H)
NTSC3.58 0.4Vp - p (H) NTSC4.43 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	12Vp - p (H))	DAL LOS
43	- F- V-9	ייים וועף – מ (ח)	PAL 1.8Vp - p (H)
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PAL 0.35Vp-p(H)	SECAM 0.35Vp - p (H)	NTSC3.58 0.35Vp - p (H) NTSC4.43 0.32Vp - p (H) S (Y/C) 0.35Vp - p (H)	COMPONENT 0.28Vp - p (H)
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SECAM 0.45Vp - p (H)	NTSC3.58 0.45Vp - p (H) NTSC4.43 0.4Vp - p (H)	S (Y/C) 0.33Vp - p (H) COMPONENT 0.36Vp - p (H)	PAL 0.5Vp - p (H) SECAM 0.5Vp - p (H) COMPONENT 0.6Vp - p (H)

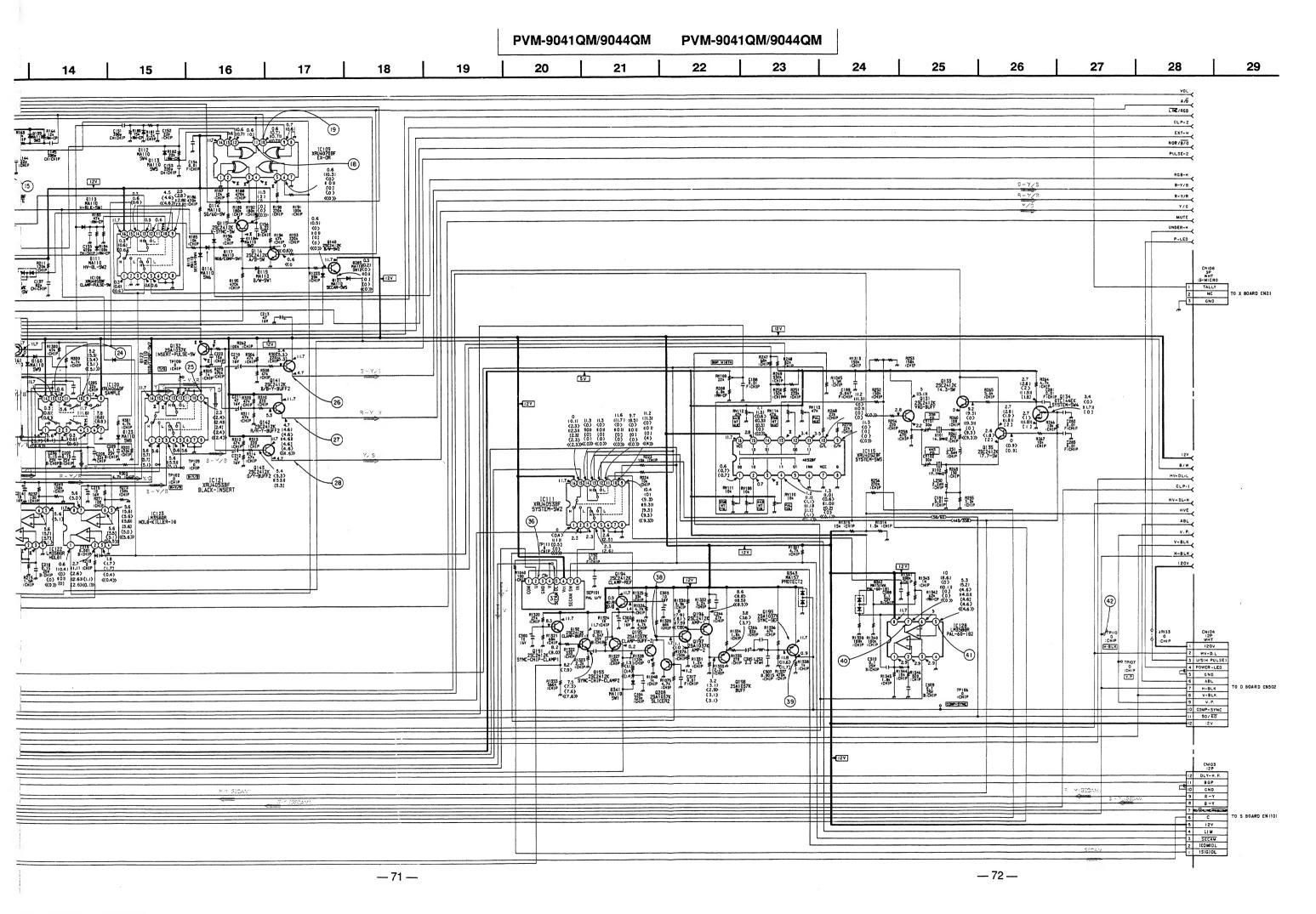
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RGB 1Vp-p (H)	COMPONENT 1Vp-p(H)
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7 (Y/C) 1Vp-p (H)	PAL 0.9Vp - p (H)
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	J. Sample Company
s (Y/C) 0.5Vp - p (H)	SECAM 1Vp-p (H)
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PAL 0.75Vp - p (H) SECAM 0.75Vp - p (H)	NTSC3.58 1Vp-p(H)
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NTSC4.43 0.15Vp - p (H)	PAL 0.3Vp - p (H)
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AL 0.9Vp - p (H) ECAM 0.9Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)
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12Vp - p (H)	12Vp – p (H)
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ECAM 0.6Vp - p (H)	SECAM 0.5Vp - p (H)
3)	24
12Vp - p (H)	12Vp – p (H)
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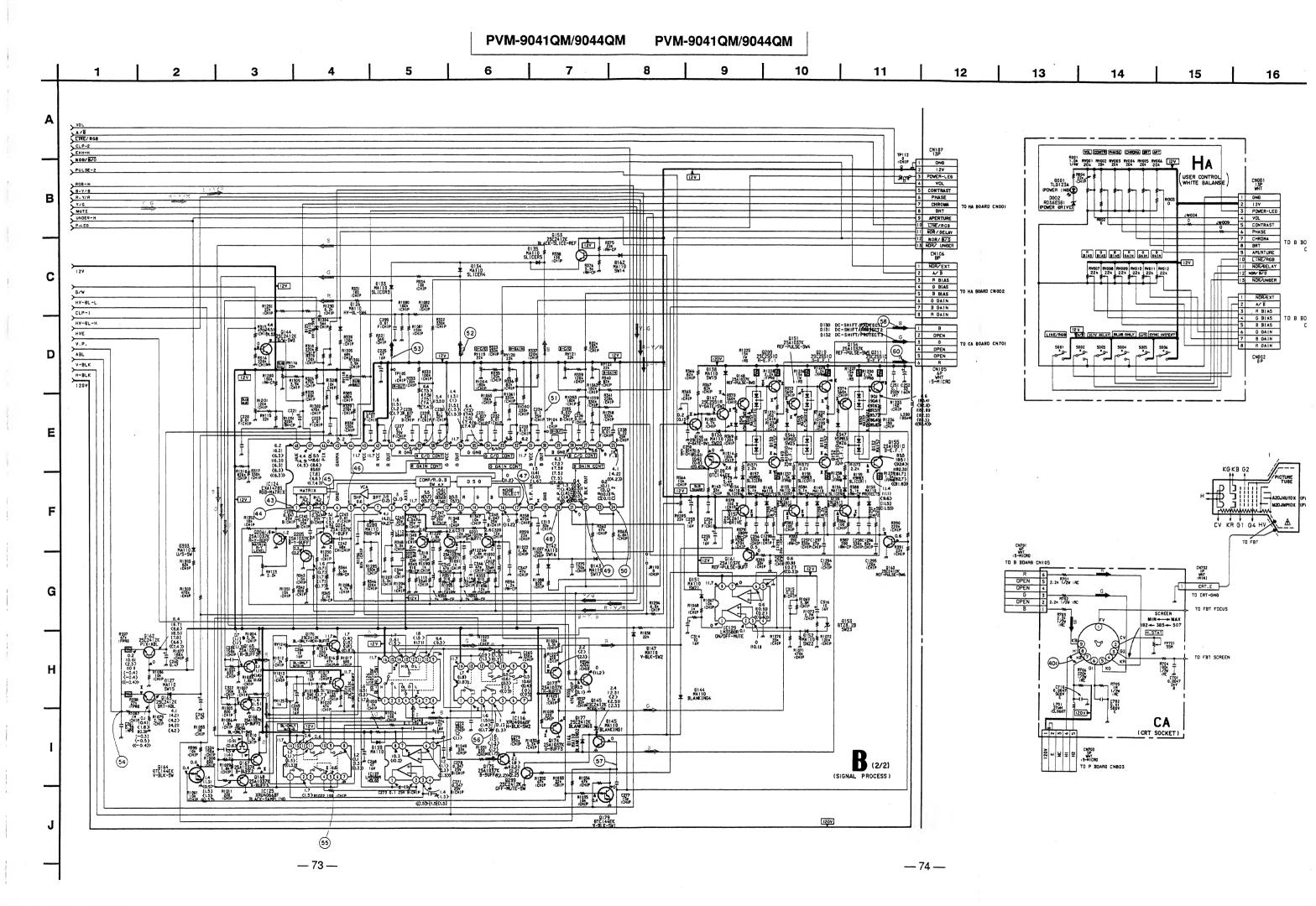
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12Vp - p (H)	PAL 1.2Vp-p (H)	SECAM 1.2Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H)	S (Y/C) 1.2Vp-p (H)
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RGB 1.4Vp - p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.3Vp - p (H)	SECAM 1.2Vp - p (H)	NTSC3.58 1.3Vp - p (H) NTSC4.43 1.3Vp - p (H) S (Y/C) 1.3Vp - p (H)
27		3		
nnnn	J. J. J. J.	المساس	4-4-4-	
RGB1.4Vp - p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.2Vp - p (H) SECAM 1.2Vp - p (H) COMPONENT 1.4Vp - p (H)	NTSC3.58 1.5Vp - p (H) NTSC4.43 1.5Vp - p (H) S (Y/C) 1.5Vp - p (H)	RGB 1.4Vp - p (H)
19	◎ √	31)		32
PAL 1Vp - p (H) SECAM 1Vp - p (H)	PAL 1Vp-p (H)	+ 123 + 123 +		مانسراسان و
SECAM 1Vp - p (H) NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	SECAM 1Vp - p (H) NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	PAL 0.36Vp - p (H)	NTSC3.58 0.3Vp - p (H) NTSC4.43 0.3Vp - p (H) S (Y/C) 0.32Vp - p (H)	PAL 0.2Vp - p (H)
32	33		ΛΛΛΛ	34
*****			44AA,	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
SECAM 1Vp - p (H)	PAL 0.7∨p - p (H)	SECAM 1.1Vp - p (H)	NTSC3.58 1.0Vp = p (H) (3.58MH ₂) NTSC4.43 0.6Vp = p (H) (4.43MH ₂) S (Y/C) 1.0Vp = p (H) (3.58MH ₂)	PAL 1.2Vp - p (H)
34	3 5		36	
مال مال	Mu Mun	-Muly Mult	+	
NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.5Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 0.6Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.4Vp-p (H)	SECAM 0.1Vp - p (H)
36	3			38
	+			
NTSC3.58 0.3Vp-p (H) NTSC4.43 0.45Vp-p (H) S (Y/C) 0.35Vp-p (H)	PAL 0.55Vp - p (H)	SECAM 0.1Vp - p (H)	NTSC3.58 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	PAL 0.4Vp - p (H) SECAM 1Vp - p (H) RGB 0.4Vp - p (H) COMPONENT 0.4Vp - p (H)
38	39	40	41)	42
	1		TANA	PAL 8.5Vp - p (H) SECAM 11Vp - p (H) NTSC158 11Vp - p (H)
NTSC3.58 0.4Vp - p (H) NTSC4.43 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	12Vp – p (H)	PAL 11Vp-p(H)	PAL 1.8Vp-p (H)	SCAM 1179 = 0 (1) NTSC3.58 1170 = 0 (1) NTSC4.43 1170 = 0 (1) S (Y/C) 1170 = 0 (1) RGB 8.570 = 0 (1) COMPONENT 8.570 = 0 (1)
43				44
		4	7/1-1/1-	^[]
PAL 0.35Vp - p (H)	SECAM 0.35Vp - p (H)	NTSC3.58 0.35Vp - p (H) NTSC4.43 0.32Vp - p (H) S (Y/C) 0.35Vp - p (H)	COMPONENT 0.28Vp - p (H)	PAL 0.45Vp - p (H)
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SECAM 0.45Vp - p (H)	NTSC3.58 0.45Vp - p (H) NTSC4.43 0.4Vp - p (H)	S (Y/C) 0.33Vp - p (H) COMPONENT 0.36Vp - p (H)		NTSC3.58 0.8Vp - p (H) NTSC4.43 0.8Vp - p (H) S (Y/C) 0.6Vp - p (H)

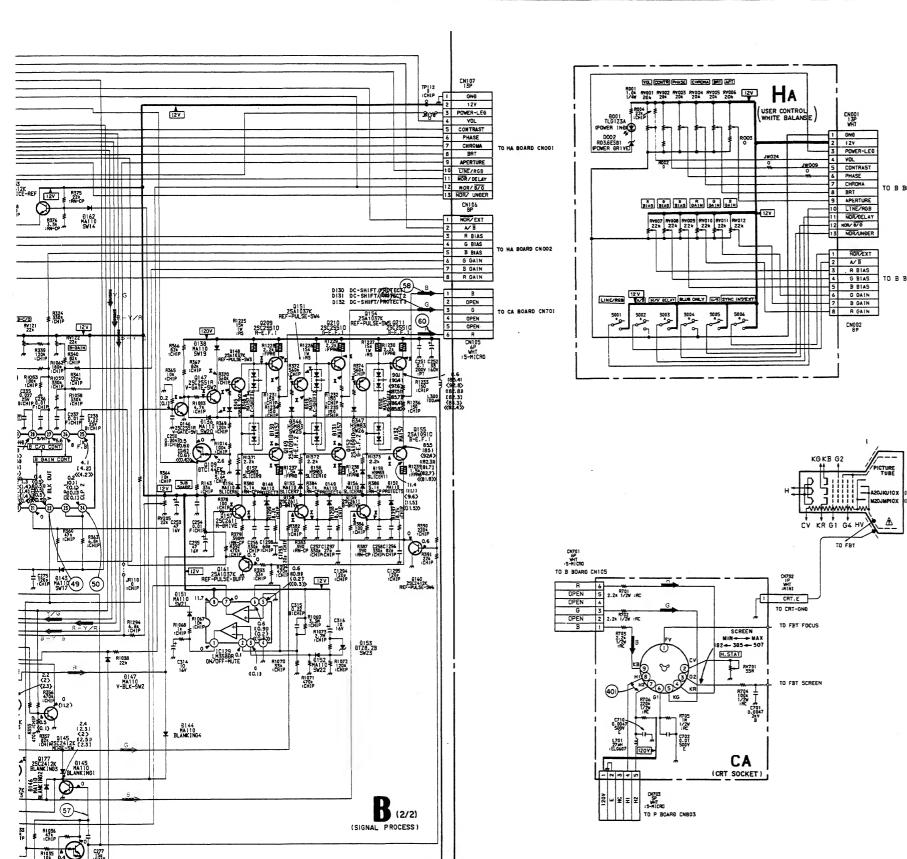
46				
				
PAL 0.36Vp - p (H)	SECAM 0.35Vp - p (H)	NTSC3.58 0.8Vp - p (H)	NTSC4.43 0.6Vp - p (H)	S (Y/C) 0.8Vp - p (H)
46	47)	48,	49	60
COMPONENT 0.3Vp - p (H)	4.5Vp - p (V)	10.4Vp - p (V)	3.5Vp - p (V)	3.5∨p - p (H)
(51)				
-lwv-lvv	ท ใจงงห์โกงง	र कियुप कियुत	hwwhww	rhww/wn
PAL 2.6Vp - p (H)	SECAM 3Vp-p(H)	NTSC3.58 3.2Vp - p (H) NTSC4.43 3.2Vp - p (H) S (Y/C) 3.2Vp - p (H)	COMPONENT 3Vp - p (H)	RGB 2.7Vp-p (H)
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7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ساسساسه	- المناهم	Hall to the same of the same o	-
PAL 2.6Vp - p (H)	SECAM 2.6Vp-p(H)	NTSC3.58 3.4Vp - p (H) NTSC4.43 3.4Vp - p (H) S (Y/C) 3.4Vp - p (H)	RGB 2.7Vp - p (H)	COMPONENT 3Vp - p (H)
5 3				
<u> </u>	*Lrethre	المجنيب المبنيد		1-1-1-1
PAL 2.5Vp - p (H)	SECAM 2.6Vp - p (H)	NTSC3.58 3.1Vp - p (H) NTSC4.43 3.1Vp - p (H) S (Y/C) 3.1Vp - p (H)	RGB 2.6Vp - p (H)	COMPONENT 2.8Vp - p (H)
€	0 0	6 5	6	5
PAL 0.6Vp - p (V)				
SECAM	NTSC3.58 0.9Vp - p (V) NTSC4.43 1Vp - p (H) S (Y/C) 0.7Vp - p (V)	11Vp - p (H)	10Vp-p (H)	2.4Vp - p (H)
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Mynn	ռակոռովու	भीत्र भीत्र ।		շխտվտո
PAL 72Vp - p (H)	SECAM 80Vp - p (H)	NTSC3.58 86Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H)	RGB 70Vp-p (H)	COMPONENT 80Vp - p (H)
69				8
	~~~~~~	<u>, 171, 171</u>		السراسيل
PAL 76Vp - p (H)	SECAM 72Vp - p (H) NTSC3.58 72Vp - p (H)	NTSC4.43 90Vp-p (H) S (Y/C) 86Vp-p (H)	RGB 70Vp-p (H)	COMPONENT 80Vp - p (H)
60				
سسس	ساسا		اسماسما	777
PAL 66Vp - p (H)	SECAM 64Vp - p (H)	NTSC3.58 80Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 80Vp - p (H)	RGB 70Vp-p (H)	COMPONENT 80Vp - p (H)

PVM-9041QM/9044QM PVM-9041QM/9044QM 2 3 5 10 CISS RIGHT CHICKLE CONTROL CON CN102 3P WHT :S-HICRO 190 1 c135 3.8 (3.9) (3.7) (3.7) (3.7) GND 3 GND 2 #130 # 100k # 100k # 100k # 8103 MA110 Y/C-5W R1066 = 1808 = 10H P 1C102 MM1149XF * 0.01 m 425 467 4 8 43 VCC IN GN0 443 425 8104 HA110 C130 T BV-5V 8.01 T C146 ₹RI R106 B/8-Y D ICI 17 NJM2245 B/B-Y-S 8 17.5 17.5 167 47.9 167 47.9 17.5 17.5 167 CHICKIP R348 R371 IC110 XRU4053BF SYSTEM-SW1 R239 4.7k ₹ IC119 NJM2245N G/Y-SW 30 443 HT SHIFTER (32) 31 B (1/2) ( SIGNAL PROCESS ) **— 69 —** 







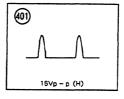


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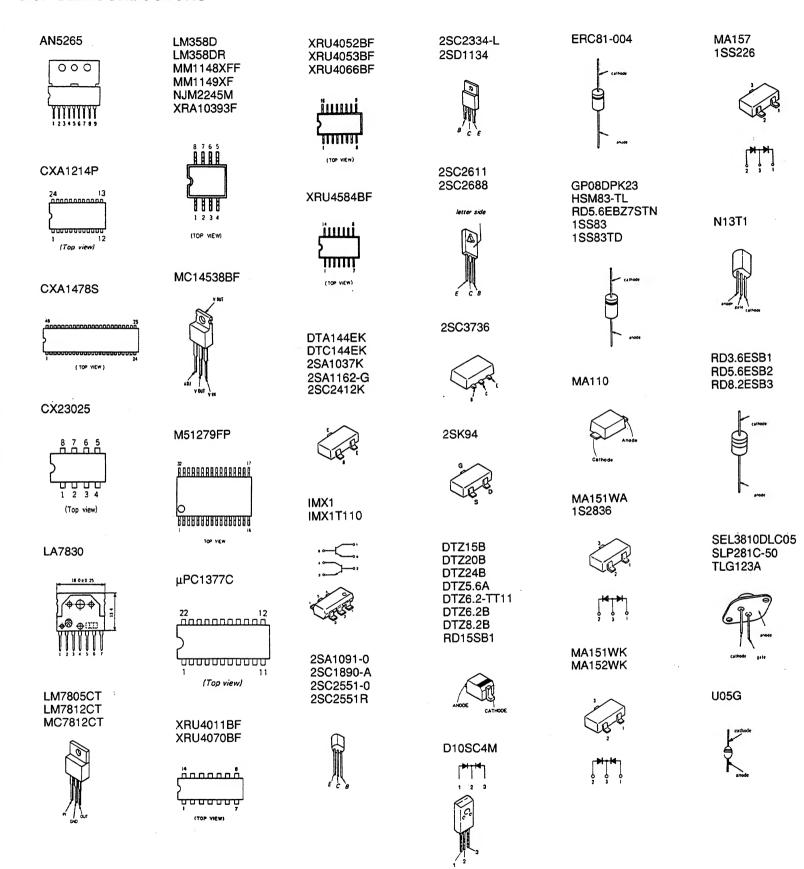
					ISTO															
		PAL	SECAM	NTSC 3.58	NTSC 4.43	S (Y/C)	ANALOG RGB	COMPO- NENT												
Q113	E	0.5	0.5	0.4	0.4	0.5	0.5	0.5												
	В	1.0	1.0	0.9	0.9	0.9	0.9	1.0												
Q115	Ε	11.2	9.3	0.0	10.6	0.0	0.0	0.0												
	В	2.8	2.2	0.1	2.4	0.1	0.1	0.0												
Q118	Ε	0.0	0.0	1.7	1.7	1.7	1.7	1.7												
Q119	В	0.1	0.0	1.7	1.7	1.7	1.7	1.7												
Q121	Ε	0.0	0.0	1.7	1.7	1.7	1.7	1.7												
Q122	В	0.0	0.0	1.7	1.7	1.7	1.7	1.7												
Q130	Ε	4.3	4.3	4.4	4.4	4.5	4.4	4.4												
	В	3.7	3.7	3.8	3.8	3.9	3.8	3.8												
Q132	Ε	2.3	2.3	2.4	2.3	2.4	2.4	2.4												
	С	1.8	1.7	1.7	1.7	1.7	1.8	1.8												
	В	2.7	2.6	2.6	2.7	2.8	2.7	2.8												
Q146	С	116.7	114.4	110.4	113.2	113.7	114.3	114.1												
Q147	E	117.9	115.8	111.6	114.5	115.0	115.5	115.4												
	С	126.0	123.5	120,3	123.4	123.8	124.6	124.4												
	В	119.8	119.5	110.5	118,4	118.2	114.2	114.2												
Q148	С	86.1	84.9	91.2	83.4	82.8	82.5	82.2												
	В	94.0	93.3	88.3	92.4	92.1	94.2	90.6												
Q149	E	1.6	1.6	1.4	1.7	1.7	1.7	1.7												
	c	88.1	84.9	91.2	83.4	82.7	82.5	82.5												
Q151	E	90.7	91,4	98.0	87.9	87.0	86.5	86.4												
4151	c	89.2	89.8	98.5	86.4	85.3	84.9	84.7												
	В	92.1	92.7			100.2	89.5	92.4	90.5	88.9										
Q152	E	86,1			86.0		92.6	82.6	82.9	82.6	82.7									
4,52	c	10.8	10.5		10.9	10.9	10.9	11.0												
Q154	В	92.5		9.7		99.8	90,1	88.7	90.4	89.2										
Q155	В	88.3	88.5 81.1 84.8 1.5	88.5 81.1 84.8 1.5	88.5 81.1 84.8 1.5	88.5 81.1 84.8	88.5 81.1 84.8 1.5	81.1 84.8 1.5	88.5 81.1 84.8 1.5	88.5 81.1 84.8	88.5 81.1 84.8	88.5 81.1 84.8	88.5 81.1 84.8	88.5 81.1	95.7	85.7	83.9	84.6	83.9	
Q157	E	82.4													81.1	87.5	79.9	79.9	80.8	79,4
4137	В	88.0														91.2	84.4	82.7	82,5	82.1
Q158	E	1.6												1.3	1.6	1.8	1.7	1.7		
	В	2.1								1.8	2.1	2.2	2.2	2.2						
Q159	F	1.6	1.8	1.3	1.8	1.7	1.7	1.7												
4100	В	2.2	2.1	1.5	2.1	2.2	2.2	2.2												
Q183	E	0.2	0.6	2.7	0.5	-0.5	-0.7	-0.8												
Q188	В	0.9	0.9	0.6	1.0	1.0		1.0												
Q168	C	2.1	2.0	1.6	2.1	2.2	2.1	2.2												
Q170	В	2.3	2.3	2.1	2.1	2.2	-													
Q172	В	2.2	2.3	1.9	2.4	2.4	2.4	2.4												
	В	1.7						2.3												
Q173			1.6	1.4	1.7	1.7	1.7	1.7												
Q174	E	2.1	2.0	1.8	2.1	2.2	2.2	2.2												
0170	В	1.6	1.5	1.3	1.6	1.6	1.7	1.7												
	В	6.2 8.3	6.2	6.3	6.1	8.2	8.2													
Q178	E	83.4	81.5	87.9	80.3	80.4	80.4	79.8												
Q209		115.8	113.2	110.7	113.2	113.8	114.5	114.2												
	<u>c</u>		20.4	00.0																
Q209	В	87.8	88.4	92.8	85.0	84.3	84.2	83.8												
			88.4 86.3 114.2	92.8 93.1 111.5	85.0 83.0 113.9	84.3 83.3 114.5	84.2 83.0 115.1	83.8 82.8 114.9												

		PAL	SECAM	NTSC 3.58	NTSC 4.43	S (Y/C)	ANALOG RGB	COMPO- NENT
IC102	2	6.6	6.8	0.0	6.6	0.0	0.0	0.0
IC108	0	0.2	0.1	0.1	0.1	0.1	0.1	0.2
	<b>(4)</b>	1.8	1.7	1.7	1.7	1.7	1.8	1.8
IC107	0	10.7	10.7	10.6	10.6	10.8	10.6	10.6
	0	1.2	10.7	0.0	0.0	0.0	0.0	0.0
IC108	0	9.7	0.4	9.7	9.6	9.8	1.1	9.8
IC109	2	11.3	11.3	0.0	10.8	0.0	0.0	0.0
	3	11.3	11.4	0.0	11.3	0.0	0.0	0.0
	(4)	11.7	0.0	0.0	11.7	0.0	0.0	0.0
	(3)	11.0	11.1	0.0	11.0	0.0	0.0	0.0
IC110	<b>(4)</b>	2.1	2.2	2.5	2.5	2.5	2.5	2.5
	00	11.3	11.3	0.0	11.3	0.0	0.0	0.0
	0	11.3	11.3	0.0	0.0	0.0	0.0	0.0
	1	0.8	0.8	2.5	2.5	2.5	2.5	2.5
	00	1.7	1.7	2.5	2.6	2.5	2.5	2.5
IC113	(4)	2.7	1.1	2.6	2.6	2.6	1.1	1.1
	0	4.2	4.3	4.2	4.3	4.3	4.8	4.8
	0	3.0	2.9	2.8	3.0	2.8	2.9	2.9
	8	2.2	2.5	2.9	2.2	1.9	2.8	2.8
IC114	8	11.4	11.3	0.0	0.0	0.0	0.0	0.0
	0	3.7	3.7	3.8	3.8	3.8	3.9	3.9
IC115	3	1.2	1.1	0.6	0.7	0.7	0.6	0.6
	13	3.5	3.5	3.4	2.8	3.4	3.4	3.4
IC116	0	0.0	0.0	1.0	1.1	1.1	1.3	1.1
IC120	3	5.5	5.8	5.6	5.6	5.6	5.6	5.6
	(4)	5.5	5.6	5.6	5.8	5.6	5.0	5.6
IC121	0	5.3	5.3	5.4	5.2	5.2	5.1	5.1
	•	5.8	5.7	5.8	5.6	5.7	5.7	5.7
	13	5.6	5.7	5.6	5.6	5.7	5.7	5.6
IC122	0	5.3	5.3	5.4	5.2	5.2	5.1	5.1
	3	5.3	5.3	5.4	5.2	5.2	5.1	5.1
IC124	1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
IC125	<b>④</b>	1.4	1.4	1.3	1.4	1.5	1.5	1.5
IC128	2	1.6	1.5	1.3	1.6	1.6	1.7	1.6
	3	1.6	1.5	1.3	1.6	1.6	1.8	1.7
	130	1.7	1.6	1.4	1.7	1.7	1.6	1.7
IC127	0	3.0	2.9	2.8	3.0	3.1	3.0	3.0
	2	1.4	1.4	1.3	1.5	1.5	1.5	1.5
	0	2.1	2.7	2.4	2.8	2.8	2.8	2.8

### CA BOARD WAVEFORM



### 6-6. SEMICONDUCTORS



NOTE:
• Items with
not stocker
routine ser

 The constr indicated v column.

7-1. CH/

● : BVTP3:▲ : BVTP3:





REF. NO. PART

1 X-40
1 X-40
2 4-03
3 *4-03
4 *4-03
5 *4-03
6 *1-64
7 1-54
8 *A-11
9 *A-13
10 \$\Delta 1-41
11 A-13
12 \$\Delta 1-57
13 *A-11
14 \$\Delta 1-43

# **SECTION 7 EXPLODED VIEWS**

### NOTE:

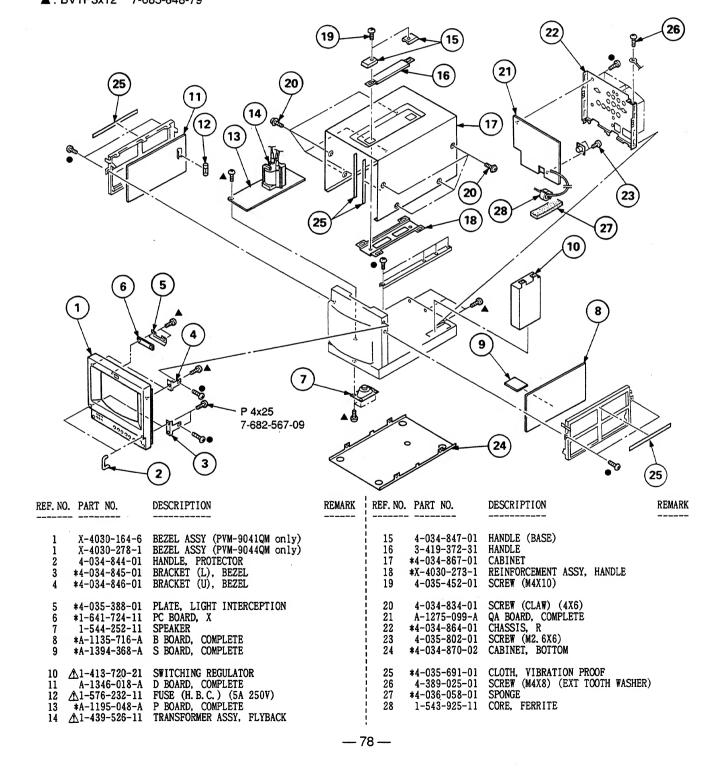
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- · The construction parts of an assembled part are indicated with a collation number in the remark

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these

The components identified by shading and mark  $\Lambda$  are critical for safety. Replace only with part number specified.

### 7-1. CHASSIS

• : BVTP3x8 7-685-646-79 ▲: BVTP3x12 7-685-648-79



MA157 1SS226





STN

N13T1



RD3.6ESB1 RD5.6ESB2 RD8.2ESB3



SEL3810DLC05 SLP281C-50 TLG123A



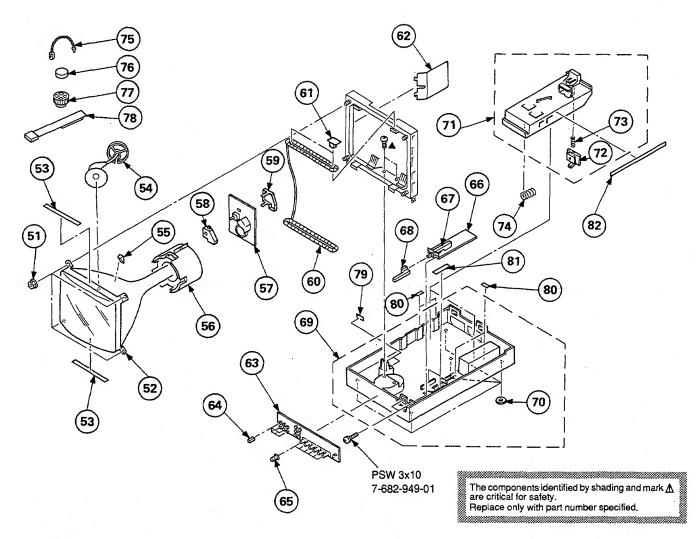
U05G



· — 77 —

## 7-2. PICTURE TUBE

▲ : BVTP3x12 7-685-648-79



RE	EF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO	). PART NO.	DESCRIPTION	REMARK
	51		FLANGE NUT, 5MM		67	1-692-050-11	SWITCH, PUSH (AC POWER) (1 KEY	*
	52 A	8-737-151-05	CRT A20JKU10X (PVM-9041QM only)		68	4-034-841-01	SWITCH, POWER	
	52 ⚠	8-737-651-05	CRT A20JMP10X (PVM-9044QM only)		69	*X-4030-166-1		
	53		CLOTH. PROTECTION				,	
	54	<b>*4-034-856-01</b>	HOLDER, HV CABLE		70	4-034-840-01	RUBBER. FOOT	
				i	71	*X-4030-163-1		
	55	4-309-369-00	SPACER, DEFLECTION YOKE	i	72	4-034-861-01		
	56 ⚠		DEFLECTION YOKE (Y9FXC)		73	4-876-347-01		
	57	*1-641-720-11	CA BOARD	1	74	3-669-594-00		
	58	<b>*4-376-133-11</b>	COVER (MAIN), CV VOL					
	59	<b>*4-376-132-11</b>	COVER (REAR LID), CV VOL		75	4-308-870-00	CLIP, LEAD WIRE	
				i	76	1-452-126-11	MAGNET	
	60 ⚠	1-426-043-00	COIL, DEGAUSSING	0	77	1-452-094-00	MAGNET, ROTATABLE DISK; 15 MM ¢	
	61	4-380-534-01	CAP, DGC		78	X-4308-815-0	PERMALLOY ASSY. CONVERGENCE	
	62	<b>*4-034-850-01</b>	INSULATOR	i	79	*4-036-047-02	RUBBER, VIBRATION PROOF	
	63	*A-1371-782-A	HA BOARD, MOUNTED				*	
	64	4-034-849-01	SWITCH (SMALL), PUSH		80	3-839-640-00	CUSHION	
				1	81	3-831-441-11	CUSHION (F)	
	65	X-4030-162-1	KNOB ASSY, CONTROL	9	82	*4-035-691-01		
	66		FA BOARD					
				ì				



**SECTION 8 ELECTRICAL PARTS LIST** 

NOTE:

specified.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS MF: μF, PF: μμF MMH: mH, UH: μH

The components identified by 
in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
*A-1135-716-A 3-710-578-01	B BOARD, COMPLETE ************************  COVER, VOLUME, 6 MOLD  TER>  FILTER, BAND PASS FILTER, BAND PASS ACITOR>			C142 C143 C144 C145 C146		CERAMIC CHIP 0.01MF CERAMIC CHIP 150PF CERAMIC CHIP 22PF CERAMIC CHIP 390PF ELECT 10MF	5% 5% 5% 20%	50V 50V 50V 50V 16V
BPF101 1-236-363-11 BPF102 1-236-364-11	FILTER, BAND PASS FILTER, BAND PASS	-		C147 C148 C149 C150 C151	1-164-232-11 1-126-160-11 1-163-022-00	CERAMIC CHIP O.OIMF	10% 20% 10%	50V 50V 50V 16V 50V
C101 1-124-589-11 C102 1-163-031-11 C103 1-126-157-11 C104 1-163-031-11 C105 1-163-031-11	ELECT 47MF CERAMIC CHIP 0.01MF ELECT 10MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20% 20%	16V 50V 16V 50V 50V	C152 C153 C154 C155 C156	1-163-101-00 1-163-125-00 1-163-031-11 1-163-133-00 1-164-299-11	CERAMIC CHIP 22PF CERAMIC CHIP 220PF CERAMIC CHIP 0.01MF CERAMIC CHIP 470PF CERAMIC CHIP 0.22MF	5% 5% 5% 10%	50V 50V 50V 50V 25V
C106 1-124-477-11	ELECT 47MF CERAMIC CHIP 0.01MF ELECT 47MF FLECT 47MF	20% 20% 20%	16V 50V 16V	C157 C158 C159 C160 C161	1-124-477-11	CERAMIC CHIP 12PF ELECT 47MF CERAMIC CHIP 12PF CERAMIC CHIP 12PF ELECT 0.47MF	5% 20% 5% 5% 20%	50V 16V 50V 50V 50V
C111 1-163-031-11 C112 1-163-031-11 C113 1-163-031-11 C114 1-124-477-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20%	50V 50V 50V 16V 50V	C162 C163 C164 C165 C166	1-163-809-11 1-163-809-11 1-163-009-11 1-163-031-11	ELECT 1MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF	20% 10% 10% 10%	50V 25V 25V 50V 50V
C116 1-124-589-11 C117 1-126-154-11 C118 1-126-154-11	ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF	20% 20% 20% 20%	16V 6.3V 6.3V 50V 6.3V	C167 C168 C169 C170 C171	1-124-477-11 1-163-031-11 1-163-243-11 1-163-129-00 1-163-243-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 47PF CERAMIC CHIP 330PF CERAMIC CHIP 47PF	20% 5% 5% 5%	16V 50V 50V 50V 50V
C121 1-124-477-11 C122 1-124-477-11 C123 1-163-031-11	ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 47MF	20% 20% 20%	16V 16V 50V 50V	C172 C173 C174 C175 C176	1-163-129-00 1-124-589-11 1-124-477-11 1-108-792-11 1-163-031-11	CERAMIC CHIP 330PF ELECT 47MF ELECT 47MF MYLAR 0.001MF CERAMIC CHIP 0.01MF	5% 20% 20% 5%	50V 16V 16V 50V 50V
C127 1-126-154-11 C128 1-126-154-11 C129 1-163-031-11	CERAMIC CHIP 0.01MF ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20% 20%	50V 6.3V 6.3V 50V 50V	C177 C178 C179 C180 C181	1-163-031-11 1-163-031-11 1-126-160-11 1-163-031-11 1-126-154-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 0.01MF ELECT 47MF	20% 20%	50V 50V 50V 50V 6.3V
	CERAMIC CHIP O.OIMF	20% 20% 5% 5%	50V 16V 16V 50V 50V	C182 C183 C184 C185 C186	1-126-163-11 1-164-232-11 1-163-031-11 1-163-031-11 1-163-099-00	ELECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 18PF	20% 10% 5%	16V 50V 50V 50V 50V
C137 1-163-115-00 C138 1-124-589-11 C139 1-163-031-11 C140 1-163-205-00 C141 1-163-141-00	CERAMIC CHIP 82PF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 20% 5% 5%	50V 16V 50V 50V 50V	C187 C188 C189 C190 C191	1-163-031-11 1-163-031-11 1-163-035-00 1-163-121-00 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.047MF CERAMIC CHIP 150PF CERAMIC CHIP 0.01MF	5%	50V 50V 50V 50V 50V



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C192 C193	1-163-031-11 1-124-589-11	CERAMIC CHIP	0.01MF 47MF	20%	50V 16V	C259	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C194 C195 C196	1-124-589-11 1-124-589-11 1-124-589-11	ELECT ELECT ELECT	47MF 47MF 47MF		16V 16V 16V	C260 C261 C262 C264	1-124-465-00 1-137-193-11 1-124-465-00 1-163-123-00	FILM ELECT CERAMIC CHIP	0.47MF 0.39MF 0.47MF 180PF	20% 5% 20% 5% 5%	50V 50V 50V 50V
C197 C198 C199 C202 C203	1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11	ELECT ELECT ELECT	47MF 47MF 47MF 47MF 47MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	C265 C266 C267 C268	1-126-320-11 1-126-320-11 1-124-477-11	CERAMIC CHIP ELECT ELECT ELECT	10MF 10MF 47MF	20% 20% 20%	50V 16V 16V 16V
C204 C205 C206 C207		ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP		20% 5% 10% 10%	16V 50V 25V 25V	C270 C271 C272	1-164-004-11 1-164-004-11 1-163-809-11 1-163-129-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.047MF 330PF	10% 10% 10% 5%	25V 25V 25V 50V
C208 C209	1-163-101-00		22PF 0.1MF	5% 10%	50V 25V	C273 C274 C275	1-163-129-00 1-124-477-11 1-163-119-00	CERAMIC CHIP ELECT CERAMIC CHIP	330PF 47MF 120PF	5% 20% 5%	50V 16V 50V
C210 C211 C212 C213	1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11	ELECT ELECT	47MF 47MF 47MF 47MF	10% 20% 20% 20% 20%	16V 16V	C277 C278 C279 C280	1-163-097-00 1-163-809-11 1-126-157-11 1-163-117-00	CERAMIC CHIP CERAMIC CHIP ELECT	15PF 0.047MF 10MF	5% 10% 20% 5%	50V 25V 16V 50V 50V
C214 C215 C216 C217	1-126-157-11 1-126-157-11 1-126-157-11 1-163-031-11 1-164-298-11	ELECT ELECT ELECT CERAMIC CHIP	47MF 10MF 10MF 10MF 0.01MF 0.15MF	20% 20% 20%	16V 16V 16V 50V 25V	C281 C282 C283 C299	1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP			50V 50V 50V 50V
C218 C219	1-163-009-11	CERAMIC CHIP	0.001MF	10%	507	C300 C301	1-126-157-11 1-163-809-11	ELECT CERAMIC CHIP	10MF 0.047MF	20% 10%	16V 25V
C220 C221 C222 C223	1-163-031-11 1-124-903-11 1-163-093-00 1-163-031-11	ELECT CERAMIC CHIP	1MF 10PF 0.01MF	20% 5%	50V 50V 50V 50V	C302 C303 C304 C305	1-124-589-11 1-126-157-11 1-163-125-00 1-124-257-00	CERAMIC CHIP	47MF 10MF 220PF 2.2MF	20% 20% 5% 20%	16V 16V 50V 50V
C225 C226 C227 C228	1-124-477-11 1-163-031-11 1-163-038-00 1-163-986-00 1-163-031-11	CERAMIC CHIP	47MF 0.01MF 0.1MF 0.027MF	20% 10%	16V 50V 25V 25V	C306 C307 C308	1-163-115-00 1-163-145-00 1-164-004-11	CERAMIC CHIP CERAMIC CHIP	82PF 0.0015MF 0.1MF	5% 5% 10% 10%	50V 50V 25V 25V
C229 C230	1-163-038-00	CERAMIC CHIP	0.1MF		50V 25V	C309 C310 C312	1-164-004-11 1-164-004-11 1-163-031-11		0.1MF	10%	25V 50V
C231 C232 C233 C234	1-163-986-00 1-163-031-11 1-163-031-11 1-163-038-00	CERAMIC CHIP	0.01MF 0.01MF 0.1MF		25V 50V 50V 25V	C313 C314 C315 C316	1-126-157-11 1-164-299-11 1-126-157-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	10MF 0.22MF 10MF	5% 20% 10% 20%	50V 16V 25V 16V
C235 C236	1-163-986-00 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	10%	25V 50V 50V	C317	1-163-031-11 1-163-095-00	CERAMIC CHIP		5%	50V 50V
C237 C238 C239	1-163-031-11 1-164-299-11 1-163-809-11 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.22MF 0.047MF	10% 10% 10%	25V 25V 25V	C319 C320 C321 C322	1-163-095-00 1-163-095-00 1-163-121-00 1-163-121-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	12PF 12PF 150PF	5% 5% 5% 5%	50V 50V 50V 50V
C240 C241 C242 C243 C244	1-163-809-11 1-163-113-00 1-163-031-11 1-163-103-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF 68PF 0.01MF	10% 5%	25V 50V 50V 50V	C324 C340 C344 C345	1-163-121-00 1-163-205-00 1-163-092-00 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	150PF 0.001MF 9PF	5% 5% 0.25PF	50V 50V 50V 50V
C245 C246 C247 C248	1-163-105-00 1-163-809-11 1-163-809-11 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF 0.047MF 0.047MF	5% 10% 10% 10%	50V 25V 25V 25V	C346 C347 C1293	1-163-109-00 1-163-109-00 1-163-119-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47PF 47PF 120PF	5% 5% 5% 5%	50V 50V 50V 50V
C249 C250	1-126-101-11	CERAMIC CHIE	100MF 0.0047MF	20% 10%	16V 50V	C1294 C1295 C1296	1-163-119-00 1-163-119-00 1-163-115-00	CERAMIC CHIP CERAMIC CHIP	120PF	5% 5%	50V 50V
C251 C252 C253 C254	1-110-364-11 1-123-935-00 1-124-477-11 1-163-031-11	MYLAR ELECT ELECT CERAMIC CHIP	0.1MF 33MF 47MF 0.01MF	10% 20% 20%	200V 160V 16V 50V	C1297 C1298 C1299 C1300	1-163-103-00 1-163-113-00 1-163-093-00 1-126-160-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	68PF 10PF 1MF	5% 5% 5% 20%	50V 50V 50V 50V
C255 C256 C257 C258	1-124-477-11 1-163-129-00 1-163-129-00 1-163-129-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	330PF	20% 5% 5% 5%	16V 50V 50V 50V	C1301	1-126-160-11 1-126-160-11	ELECT	1MF	20%	50V 50V



REF.NO. PA	ART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1303 1-	126-160-11	ELECT	IMF 2	20%	50 <b>V</b>	D135 D136	8-719-404-46 8-719-404-46		
		'ER BLOCK>				D137 D138	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
CFM101 1-	-464-880-11	FILTER BLOCK,	COM (CFB-2)			D139 D142 D143	8-719-404-46	DIODE MA110 DIODE MA110	
	<con!< td=""><td>IECTOR&gt;</td><td></td><td></td><td></td><td></td><td>8-719-404-46</td><td></td><td></td></con!<>	IECTOR>					8-719-404-46		
CN101 1- CN102 *1- CN103 *1- CN104 1- CN105 *1-	-506-480-11 -564-506-11 -565-503-11 -506-477-11 -564-509-11	PIN, CONNECTO PLUG, CONNECTO CONNECTOR, BO PIN, CONNECTO PLUG, CONNECTO	R 15P DR 3P ARD TO BOARD R 12P DR 6P	12P		D145 D146 D147 D148	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO DIODE MAILO	
CN106 1- CN107 1-	-506 <b>-</b> 473-11 -506 <b>-</b> 478-11	PIN, CONNECTO PIN, CONNECTO PLUG, CONNECT	R 8P R 13P DR 3P			D149 D150 D151 D152 D153	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-977-20	DIODE MA110	
	<tra< td=""><td>P MODULE&gt;</td><td></td><td></td><td></td><td>D154 D155</td><td>8-719-404-46 8-719-404-46</td><td>DIODE MAILO</td><td></td></tra<>	P MODULE>				D154 D155	8-719-404-46 8-719-404-46	DIODE MAILO	
CTR101 1- CTR102 1-	-236-366-11 -236-365-11	MODULE, TRAP MODULE, TRAP				D156 D157 D158	8-719-404-46 8-719-901-83 8-719-901-83	DIODE MA110 DIODE 1SS83	
. 0		MMER>	operation of the			D159 D160	8-719-901-83 8-719-404-46	DIODE 1883 DIODE MAILO	to the second se
CV101 1- CV102 1-	-141-245-00 -141-245-00	CAP, TRIMMER CAP, TRIMMER				D161 D162 D170	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO	
	<dio< td=""><td>DE&gt;</td><td></td><td></td><td></td><td>D171 D172</td><td>8-719-404-46 8-719-404-46</td><td></td><td></td></dio<>	DE>				D171 D172	8-719-404-46 8-719-404-46		
D102 8	-719-404-46	DIODE MA110 DIODE MA110				D285 D289	8-719-404-46 8-719-404-46	DIODE MA110	
D103 8- D104 8-	-719-404-46 -719-404-46					D341	8-719-404-46	• *	
	-719-404-46 -719-404-46	DIODE MAIIO				D342 D343 D344	8-719-104-34 8-719-800-76 8-719-105-44	DIODE 1S2836 DIODE 1SS226 DIODE RD6.2M-B1	
D107 8- D108 8-	-719-404-46 -719-404-46	DIODE MA110 DIODE MA110				D345 D346	8-719-901-83 8-719-901-83	DIODE 1SS83 DIODE 1SS83	
D109 8	-719-404-46 -719-404-46	DIODE MA110 DIODE MA110				D347	8-719-901-83	DIODE 15583	
D111 8 D112 8	-719-404-46 -719-404-46	DIODE MAILO			,	D348 D349 D350	8-719-800-76 8-719-800-76 8-719-800-76	DIODE 1SS226	
D113 8	-719-404-46	DIODE MAIIO DIODE MAIIO				D393	8-719-404-46		
D115 8	-719-404-46	DIODE MA110					<del< td=""><td>AY LINE&gt;</td><td></td></del<>	AY LINE>	
D117 8	-719-404-46	DIODE MA110				DL101	1-415-632-11	DELAY LINE, Y	
D119 8	-719-404-46 -719-404-46 -719-404-46	DIODE MA110 DIODE MA110 DIODE MA110				DLIUZ	1-415-055-11	DELAY LINE, Y	
D121 8	-719-404-46	DIODE MA110				*-	<10		
D123 8	-719-404-46 -719-404-46	DIODE MAILO DIODE MAILO				IC102	8-759-048-09 8-759-501-21	IC MM1148XF IC MM1149XF IC MM1149XF	
D125 8 D126 8	-719-404-46 -719-404-46	DIODE MA110 DIODE MA110				IC104	8-759-501-21 8-759-501-21 8-759-048-09	IC MM1149XF IC MM1148XF	
D128 8	-719-404-46 -719-400-18	DIODE MA110 DIODE MA152WK				IC106	8-759-009-51	IC MC14538BF	
D129 8 D130 8	-719-404-46 -719-800-76	DIODE MA110 DIODE 1SS226				IC107 IC108	8-759-509-57 8-759-509-17	IC XRU4584BF IC XRU4053BF	
	-719-800-76 -719-800-76	DIODE 1SS226 DIODE 1SS226				IC109 IC110	8-759-509-37 8-759-509-17	IC XRU4070BF IC XRU4053BF	
D133 8	-719-404-46	DIODE MA110 DIODE MA110				IC111 IC112	8-759-509-17 8-759-924-12	IC XRU4053BF IC LM7805CT	
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J	REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	IC114 IC115 IC116 IC117	8-759-631-08 8-759-509-13 8-759-509-13 8-759-509-05 8-759-711-32	IC XRU4052BF IC XRU4052BF IC XRU4066BF IC NJM2245M			Q123 Q124 Q125 Q126 Q127	8-729-216-22 8-729-920-74 8-729-901-01	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G	
)	1C120 1C121 1C122	8-759-711-32 8-759-711-32 8-759-509-05 8-759-509-17 8-759-998-98	IC XRU4053BF IC LM358D			Q128 Q129 Q130 Q131 Q131 Q132	8-729-216-22 8-729-901-01 8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	
	IC124 IC125 IC126 IC127	8-759-998-98 8-752-052-62 8-759-509-05 8-759-509-17 8-759-998-98	IC CXA1478S IC XRU4066BF IC XRU4053BF IC LM358D		•	Q133 Q134 Q135 Q136 Q137	8-729-901-01 8-729-920-74 8-729-907-26	TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR IMX1 TRANSISTOR IMX1	
}	IC128 IC129	8-759-998-98 8-759-998-98 <coi< td=""><td>IC LM358D L&gt;</td><td></td><td></td><td>Q138 Q139 Q140 Q141 Q142</td><td>8-729-216-22 8-729-920-74 8-729-920-74</td><td>TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR</td><td></td></coi<>	IC LM358D L>			Q138 Q139 Q140 Q141 Q142	8-729-216-22 8-729-920-74 8-729-920-74	TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
)	L103	1-412-002-31	INDUCTOR INDUCTOR INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP	4.7UH 4.7UH		Q143 Q144 Q145 Q146 Q147	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2551-0 TRANSISTOR 2SC2551-0	
	L106 L107 L108 L109 L110	1-410-470-11 1-410-470-11 1-408-418-00 1-408-418-00 1-408-418-00	INDUCTOR INDUCTOR INDUCTOR	10UH 10UH 56UH 56UH		Q148 Q149 Q150 Q151 Q152	8-729-216-22 8-729-200-17 8-729-920-74 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-02 TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-02	
	L112 L113 L114 L115 L116	1-410-947-31 1-410-947-31 1-410-947-31	INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP	08UH		0.50	8-729-920-74 8-729-216-22 8-729-200-17 8-729-326-11	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-02 TRANSISTOR 2SC2611 TRANSISTOR 2SC2611	
	L117 L118 L250 L251 L252	1-412-011-31 1-410-997-31	INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP	27UH 27UH 2.2UH 3.3UH 47UH		Q159 Q160 Q161 Q162	8-729-326-11 8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2SC2611 TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
	L300	1-410-482-31	INDUCTOR	100UH		0164	8-729-901-01	TRANSISTOR DTC144EK	
)	Q101		NSISTOR> TRANSISTOR 2SC2	2412K-OR		Q166 Q167 Q168	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
}	Q102 Q103 Q104 Q105	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2	2412K-QR 2412K-QR 2412K-QR			8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	
}	Q106 Q107 Q108 Q109 Q112	8-729-920-74 8-729-216-22 8-729-901-01	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR DTC1 TRANSISTOR 2SC2	2412K-QR 1162-G 144EK		Q174 Q175 Q176 Q177	8-729-216-22 8-729-216-22 8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR	
}	Q113 Q114 Q115	8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2SC2 TRANSISTOR 2SA1 TRANSISTOR 2SC2	2412K-QR 1162-G 2412K-QR		Q178 Q179 Q190	8-729-920-74 8-729-901-01 8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G	
	Q116 Q117 Q118	8-729-216-22	TRANSISTOR 2SC2 TRANSISTOR 2SA3 TRANSISTOR 2SC2	1162-G		Q191 Q192 Q193 Q194	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
}	Q119 Q120 Q121 Q122	8-729-216-22 8-729-216-22 8-729-920-74	TRANSISTOR 2SAI TRANSISTOR 2SAI TRANSISTOR 2SAI TRANSISTOR 2SAI	1162-G 1162-G 2412K-QR		Q195 Q196 Q197	8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	



REF.NO	. PART NO.	DESCRIPTION	,			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
Q198 Q199 Q200 Q201 Q202	8-729-216-22 8-729-216-22 8-729-901-06 8-729-216-22 8-729-216-22	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	5A1162- 5A1162- FA144EK 5A1162- 5A1162-	G G G			R141 R142 R143 R145	1-216-063-00 1-216-073-00 1-216-085-00 1-216-065-00 1-216-037-00	METAL GLAZE	3.9K 10K 33K 4.7K 330	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q203 Q204 Q205 Q206 Q208	8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	5A1162- 5A1162- 5A1162- 5A1162- 5A1162-				R147 R148 R155 R157	1-216-037-00 1-216-089-00 1-216-671-11 1-216-655-11 1-216-679-11 1-216-677-11	METAL GLAZE	47K 6.8K	5% 0.50% 0.50% 0.50%	1/10W	
Q209 Q210 Q211 Q212 Q299	8-729-255-12 8-729-255-12 8-729-255-12 8-729-109-44 8-729-920-74	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC2551- SC2551- SC2551- SK94-X4 SC2412K	0 0 0 -QR			R160 R161 R163 R164 R165	1-216-065-00 1-216-089-00 1-216-073-00 1-216-677-11 1-216-107-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 47K	5% 5% 5% 0.50%	1/10W 1/10W	
	<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td>R166</td><td>1-216-681-11 1-216-635-11</td><td></td><td>18K 220</td><td></td><td>1/10W 1/10W</td><td></td></res<>	SISTOR>					R166	1-216-681-11 1-216-635-11		18K 220		1/10W 1/10W	
JR105 JR110 JR118 JR133	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R168 R169 R170	1-216-103-00 1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	180K 220 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
JR138 JR178 R101 R102 R103	1-216-295-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 47K 100 56K 3.3K		1/10W 1/10W 1/10W 1/10W 1/10W	<del>-</del> ,	R171 R172 R173 R174 R175	1-216-053-00 1-216-043-00 1-216-093-00 1-216-069-00 1-216-057-00	METAL GLAZE METAL GLAZE	1.5K 560 68K 6.8K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R104 R105 R106 R107	1-216-061-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 100 4.7K 100 470K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R176 R177 R178 R179 R180	1-216-065-00 1-216-073-00 1-216-089-00 1-216-081-00 1-216-679-11	METAL GLAZE METAL GLAZE	4.7K 10K 47K 22K 15K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
R108 R109 R110 R111 R112	1-216-113-00 1-216-065-00 1-216-049-00 1-216-063-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	F	R181 R182 R183 R184 R185	1-216-071-00 1-216-683-11 1-216-691-11 1-216-699-11 1-216-073-00	METAL GLAZE METAL CHIP METAL CHIP	8.2K 22K 47K	5% 0.50% 0.50% 0.50% 5%	1/10W 1/10W 1/10W	
R113 R114 R115	1-249-401-11 1-216-045-00 1-216-061-00	METAL GLAZE METAL GLAZE		5% 5% 5%	1/4W 1/10W 1/10W	F	R186 R187 R188	1-216-113-00 1-216-073-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 10K 470K 180K 270K		1/10W 1/10W 1/10W	
R117 R118 R119	1-216-073-00 1-216-025-00 1-216-647-11	METAL GLAZE METAL CHIP	680				R190	1-216-103-00 1-216-107-00	METAL GLAZE			1/10W 1/10W	
R120 R121 R122 R123 R124	1-216-647-11 1-216-025-00 1-216-083-00 1-216-073-00 1-216-073-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 27K 10K 10K	0.50% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R191 R192 R193 R194 R195	1-216-097-00 1-216-103-00 1-216-105-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 180K 220K 47K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R125 R126 R127 R128	1-216-083-00 1-216-093-00 1-216-037-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 68K 330 27K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/10W 1/10W 1/10W 1/10W		R196 R197 R198 R199 R200	1-216-073-00 1-216-671-11 1-216-049-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	10K 6.8K 1K 4.7K 4.7K	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R129 R130 R131 R132	1-216-067-00 1-216-097-00 1-216-089-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 100K 47K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R203 R204	1-216-043-00 1-216-033-00 1-216-045-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 220 680 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R133 R134 R135	1-216-079-00 1-216-645-11 1-216-645-11 1-216-091-00	METAL CHIP METAL CHIP METAL CHIP	18K 560 560	5% 0.50% 0.50% 5%	1/10W 1/10W		R206 R207 R208	1-216-073-00 1-216-043-00 1-216-045-00 1-216-671-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	10K 560 680 6.8K	5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	
R137 R138 R139 R140	1-216-045-00 1-216-657-11 1-216-079-00 1-216-653-11	METAL GLAZE METAL CHIP METAL GLAZE METAL CHIP	18K	0.50%	1/10W		R210 R211	1-216-043-00 1-216-033-00 1-216-099-00 1-216-065-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 220 120K 4.7K 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	



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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK	
R214 R215 R216 R217 R218	1-216-043-00 1-216-125-00 1-216-043-00 1-216-033-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 1.5M 560 220	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R280 R281 R282 R283	1-216-061-00 1-216-061-00 1-216-037-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.3K 330 1K 2.2K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R219 R220 R221 R222 R223	1-216-043-00 1-216-043-00 1-216-035-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 560 270 220 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R284 R285 R286 R287 R288	1-216-057-00 1-216-037-00 1-216-061-00 1-216-061-00 1-216-037-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.3K 3.3K 3.3K 3.1K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R224 R225 R226 R227 R228	1-216-073-00 1-216-095-00 1-216-073-00 1-216-035-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 82K 10K 270 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R289 R290 R291 R292 R293 R295	1-216-057-00 1-216-057-00 1-216-061-00 1-216-061-00 1-216-057-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	2.2K 330 3.3K 3.3K 2.2K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R229 R230 R231 R232 R233	1-216-113-00 1-216-081-00 1-216-113-00 1-216-105-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R296 R297 R298 R300	1-216-659-11 1-216-659-11 1-216-065-00 1-216-065-00 1-216-065-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 4.7K 4.7K 4.7K	0.50% 0.50% 5% 5%	1/10W		
R234 R235 R236 R237 R238	1-216-041-00 1-216-041-00 1-216-077-00 1-216-025-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE					R302 R303 R304 R305 R306 R307	1-216-113-00 1-216-065-00 1-216-049-00 1-216-049-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 4.7K 1K 1K 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	Y -<-	
R239 R240 R241 R242 R243	1-216-065-00 1-216-033-00 1-216-073-00 1-216-051-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 10K 1.2K 470K		1/10W 1/10W 1/10W 1/10W 1/10W		R308 R309 R310 R311	1-216-033-00 1-216-089-00 1-216-089-00 1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 47K 47K 220 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R244 R245 R246 R247 R248	1-216-065-00 1-216-679-11 1-216-103-00 1-216-093-00 1-216-095-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 15K 180K 68K 82K	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R312 R313 R314 R315 R316	1-216-089-00 1-216-033-00 1-216-089-00 1-216-113-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 220 47K 470K 220K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R249 R250 R251 R252 R253	1-216-109-00 1-216-101-00 1-216-105-00 1-216-101-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 150K 220K 150K 150K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R317 R318 R319 R320 R321	1-216-109-00 1-216-105-00 1-216-099-00 1-216-099-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 220K 120K 120K 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R254 R255 R256 R258 R259	1-216-033-00 1-216-061-00 1-216-107-00 1-216-041-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 3.3K 270K 470 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R321 R322 R323 R324 R325 R326	1-216-109-00 1-216-109-00 1-216-109-00 1-216-097-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 330K 330K 100K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R260 R261 R262 R263 R264	1-216-025-00 1-216-035-00 1-216-097-00 1-216-029-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 270 100K 150 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R328 R329 R330 R331 R332	1-216-073-00 1-216-107-00 1-216-105-00 1-216-025-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 270K 220K 100 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R265 R266 R267 R268 R269	1-216-067-00 1-216-073-00 1-216-073-00 1-216-081-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 10K 10K 22K 150K	5%%%% 5%%%% 5%%%%	1/10W 1/10W 1/10W 1/10W 1/10W		R333 R334 R335 R336 R337	1-216-097-00 1-216-025-00 1-216-099-00 1-216-095-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 100 120K 82K 220K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R270 R271 R272 R273 R275	1-216-081-00 1-216-025-00 1-216-101-00 1-216-113-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 100 150K 470K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R338 R339 R340 R341 R342	1-216-025-00 1-216-099-00 1-216-095-00 1-216-105-00 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 120K 82K 220K 820	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		e •
R276 R277 R278 R279	1-216-037-00 1-216-049-00 1-216-057-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 1K 2.2K 330	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R343	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W		



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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R344 R345 R346 R348 R349	1-216-664-11 1-216-661-11 1-216-105-00 1-216-061-00 1-216-650-11	METAL CHIP METAL GLAZE	3.6K 2.7K 220K 3.3K 910	0.50% 1/10 0.50% 1/10 5% 1/10 5% 1/10 0.50% 1/10	4 4 4	R1017 R1018 R1019 R1020	1-216-045-00 1-216-043-00 1-216-033-00 1-216-089-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 560 220 47K 680	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R350 R351 R352 R353 R354	1-216-653-11 1-216-650-11 1-216-653-11 1-216-650-11 1-216-653-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	1.2K 910 1.2K 910 1.2K	0.50% 1/10 0.50% 1/10 0.50% 1/10 0.50% 1/10 0.50% 1/10	ባ ባ ካ	R1022 R1023 R1024 R1025 R1026	1-216-025-00 1-216-025-00 1-216-025-00 1-216-033-00 1-216-061-00	METAL GLAZE	100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R355 R356 R357 R358 R359	1-216-113-00 1-216-113-00 1-216-095-00 1-216-113-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 470K 82K 470K 22K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	취 취 취	R1027 R1028 R1029 R1030 R1031	1-216-101-00 1-216-033-00 1-216-061-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 3.3K 47K 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R360 R363 R364 R365 R366	1-216-089-00 1-216-069-00 1-216-073-00 1-216-073-00 1-216-244-00	METAL GLAZE METAL GLAZE	10K 82K	5% 1/10 5% 1/8W	4 기 역	R1032 R1033 R1035 R1036 R1038	1-216-061-00 1-216-081-00 1-216-073-00 1-216-089-00 1-216-081-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 22K 10K 47K 22K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R367 R368 R369 R370 R371	1-216-244-00 1-216-055-00 1-216-248-00 1-216-115-00 1-216-067-00	UDMAL OLAGO	82K 1.8K 120K 560K 5.6K	5% 1/8W 5% 1/10 5% 1/8W 5% 1/10 5% 1/10	W	R1040 R1042 R1043 R1044 R1045	1-216-025-00 1-216-047-00 1-216-057-00 1-216-061-00 1-216-125-00 1-216-689-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 820 2.2K 3.3K 1.5M	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R372 R374 R375 R376 R378	1-216-115-00 1-216-115-00 1-216-683-11 1-216-663-11 1-216-025-00	METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE	560K 560K 22K 3.3K 100	5% 1/10 5% 1/10 0.50% 1/10 0.50% 1/10 5% 1/10	#} #} 	R1046 R1047 R1048 R1049 R1050	1-216-689-11 1-216-065-00 1-216-049-00 1-216-085-00 1-216-059-00	METAL CHIP  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	39K 4.7K 1K 33K 2.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R379 R380 R381 R382 R383	1-216-641-11 1-216-668-11 1-216-089-00 1-216-025-00 1-216-641-11	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP	390 5.1K 47K 100 390	0.50% 1/10 0.50% 1/10 5% 1/10 5% 1/10 0.50% 1/10	M M M	R1051 R1053 R1054 R1055 R1056	1-216-105-00 1-216-091-00 1-216-093-00 1-216-097-00 1-216-037-00	METAL GLAZE	220K 56K 68K 100K 330	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R384 R385 R386 R387 R388	1-216-668-11 1-216-117-00 1-216-025-00 1-216-641-11 1-216-668-11	METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	5.1K 680K 100 390 5.1K	0.50% 1/10 5% 1/10 5% 1/10 0.50% 1/10 0.50% 1/10	พ พ พ พ พ	R1057 R1058 R1059 R1060 R1061	1-216-065-00 1-216-109-00 1-216-109-00 1-216-109-00 1-216-109-00	METAL GLAZE	4.7K 330K 330K 330K 330K 180K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R390 R391 R392 R393 R394	1-216-105-00 1-216-081-00 1-216-113-00 1-216-085-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 22K 470K 33K 470K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10		R1062 R1063 R1064 R1065 R1066	1-216-103-00 1-216-103-00 1-216-103-00 1-216-103-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 180K 180K 180K 10K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R397 R398 R399 R1001 R1002	1-249-437-11 1-249-434-11 1-216-073-00 1-216-073-00 1-216-047-00	CARBON CARBON METAL GLAZE METAL GLAZE METAL GLAZE	47K 27K 10K 10K 820	5% 1/4% 5% 1/4% 5% 1/10 5% 1/10 5% 1/10	F W	R1067 R1068 R1069 R1070 R1071	1-216-073-00 1-216-049-00 1-216-133-00 1-216-085-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 3.3M 33K 470K	555 558 558 5555 5555	1/10W 1/10W 1/10W 1/10W 1/10W	
R1003 R1004 R1005 R1006 R1007	1-216-055-00 1-216-061-00 1-216-047-00 1-216-055-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 3.3K 820 1.8K 3.3K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	₩ ₩	R1072 R1073 R1075 R1076 R1077	1-216-099-00 1-216-131-11 1-216-065-00 1-216-101-00 1-216-103-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	120K 2.7M 4.7K 150K 180K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1011	1-216-047-00 1-216-055-00 1-216-061-00 1-216-033-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 1.8K 3.3K 220 1.2K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	W W	R1079 R1080 R1081 R1082 R1083	1-216-131-11 1-216-097-00 1-216-097-00 1-216-105-00 1-216-065-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	2.7M 100K 100K 220K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1013 R1014 R1015 R1016	1-216-051-00 1-216-246-00 1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 100K 220 47K	5% 1/10 5% 1/8v 5% 1/10 5% 1/10	₩	R1084 R1086	1-216-063-00 1-216-073-00	METAL GLAZE	3.9K 10K	5% 5%	1/10W 1/10W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1088 R1090 R1091	1-216-121-00 1-216-047-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 820 1K 1K 1K		1/10W 1/10W 1/10W 1/10W 1/10W		i	1-216-099-00 1-216-099-00 1-216-093-00 1-216-063-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120K 55 120K 55 68K 55 3.9K 55 1.2K 55 2.2K 55		
R1094 R1095 R1096 R1200	1-216-121-00 1-216-075-00 1-216-075-00 1-216-075-00 1-216-699-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP		0.50%			R1332	1-216-057-00 1-216-057-00 1-216-055-00 1-216-035-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 55 2.2K 55 1.8K 55 270 55 47K 55 47OK 55	% 1/10W % 1/10W % 1/10W	) 
R1207 R1208 R1220 R1221	1-218-754-11 1-216-061-00 1-216-065-00 1-216-055-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 4.7K 1.8K 1.8K				R1337 R1338 R1339 R1340 R1341	1-216-113-00 1-216-049-00 1-216-097-00 1-216-111-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 55 100K 55 100K 55 390K 55	% 1/10W % 1/10W % 1/10W % 1/10W	 
R1223 R1225 R1226 R1227	1-215-876-00 1-215-876-00 1-215-876-00	METAL OXIDE	1.8K 39K 15K 15K 15K	5% 5% 5%	1/10W 1/10W 1W 1W	4 4 4	R1342 R1343 R1344 R1345 R1346	1-216-055-00 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 55 10K 55 1.8K 55 820 55	.50% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W	 
		METAL GLAZE METAL GLAZE		5% 5% 5%	1/4W 1/4W 1/10W 1/10W	r F	R1348 R1349 R1350	1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 55 10K 55 10K 55 10K 55	% 1/10W % 1/10W % 1/10W % 1/10W	,
R1234 R1235 R1236 R1237	1-216-029-00 1-216-029-00 1-216-029-00 1-216-029-00 1-249-419-11		150 150 150 150 1.5K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	F	R1352 R1353 R1371 R1372 R1373 R1392	1-216-073-00 1-216-115-00 1-216-057-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 55 560K 55 2.2K 55 2.2K 55 2.2K 55 47K 55		 
R1239 R1270 R1271 R1280	1-249-419-11 1-249-419-11 1-216-079-00 1-216-057-00 1-216-109-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W		R1393	1-216-089-00 1-216-095-00 <var< td=""><td>METAL GLAZE  METAL GLAZE  IABLE RESISTOR</td><td>82K 5</td><td></td><td></td></var<>	METAL GLAZE  METAL GLAZE  IABLE RESISTOR	82K 5		
R1291 R1294 R1295	1-216-071-00 1-216-081-00 1-216-069-00 1-216-109-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 22K 6.8K 330K 82K		1/10W 1/10W 1/10W 1/10W 1/10W		RV101 RV102 RV103 RV104 RV105	1-241-763-11 1-241-763-11 1-238-009-11 1-238-009-11 1-238-012-11	RES, ADJ, CER RES, ADJ, CER RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	MET 4.7K BON 220 BON 220		
R1298 R1299 R1300	1-216-071-00 1-216-071-00 1-216-071-00 1-216-089-00 1-216-065-00		8.2K 8.2K 8.2K 47K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		1	1-238-012-11 1-238-012-11 1-238-016-11 1-241-703-11 1-238-016-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CER RES, ADJ, CAR	BON 1K BON 10K MET 22K		
R1303 R1304 R1305	1-216-113-00 1-216-113-00 1-216-091-00 1-216-093-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 470K 56K 68K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV111 RV112 RV113 RV114 RV115	1-238-016-11 1-238-019-11 1-238-019-11 1-238-019-11 1-238-017-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 10K BON 47K BON 47K BON 47K		
R1308 R1309 R1310	1-216-041-00 1-216-041-00 1-216-063-00 1-216-119-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 470 3.9K 820K 150K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV116 RV118 RV119 RV120 RV121	1-238-017-11 1-238-017-11 1-238-017-11 1-238-017-11 1-238-017-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 22K BON 22K BON 22K		
R1315 R1320 R1321	1-216-053-00 1-216-077-00 1-216-083-00 1-216-093-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 15K 27K 68K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV122 RV123 RV124 RV125 RV205	1-238-017-11 1-238-013-11 1-238-012-11 1-238-012-11 1-238-017-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 22K BON 2.2K BON 1K BON 1K		
R1324 R1325	1-216-057-00 1-216-121-00 1-216-085-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 1M 33K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W							



The components identified by shading and mark  $\Delta$  are critical for safety.
Replace only with part number specified.

RI	EF.NO.	PART NO.	DESCRIPTION	<u>\</u> -		REMARK	REF.NO.	PART NO.	DESCRIPTION				RE	MARK		
		< MOD	OULE>				9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10									
SEP101 1-808-654-11 MODULE							! ! !	<neo< td=""><td>N LAMP&gt;</td><td></td><td></td><td></td><td></td><td></td></neo<>	N LAMP>							
		<cry< td=""><td>STAL&gt;</td><td></td><td></td><td></td><td>NL801</td><td>1-519-108-XX</td><td>LAMP, NEON</td><td></td><td></td><td></td><td></td><td></td></cry<>	STAL>				NL801	1-519-108-XX	LAMP, NEON							
	(101		OSCILLATOR,	CRYSTAL			 	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>							
		1-577-259-11			******	*******	0802	Q801 8-729-195-82 TRANSISTOR 2SC2958 Q802 8-729-201-62 TRANSISTOR 2SC2555 *4-363-404-00 HOLDER, IC; Q802 4-382-854-01 SCREW (M3X8), P, SW (+): 4-879-937-00 SHEET, MICA; Q802								
		*A-1195-048-A	P BOARD, CON			*							Q802			
		<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>Q803</td><td>8-729-906-24</td><td>TRANSISTOR 2</td><td>SD835</td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				Q803	8-729-906-24	TRANSISTOR 2	SD835						
	2801 2802	1-126-104-11 1-162-318-11	ELECT	470MF 0.001MF	20% 10%	35V 500V	1 5 1	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></res<>	ISTOR>							
(	2803 2804 2805	1-102-228-00 1-123-935-00 1-101-004-00	CERAMIC ELECT CERAMIC	470PF 33MF 0.01MF	10% 20%	500V 160V 50V	R801 R802 R803 R804	1-249-383-11 1-249-377-11 1-216-049-00 1-249-419-11	CARBON METAL GLAZE CARBON	0.47 1K	5% 5% 5% 5%	1/4W 1/4W 1/10W 1/4W	F F			
(	806 807	1-124-480-11 1-102-228-00	ELECT CERAMIC	470MF 470PF	20% 10%	25V 500V	R805 R807	1-215-892-11 1-216-425-11			5% 5%	2W 1W	F F			
(	2808 2809 2810	1-106-367-00 1-106-375-12 1-162-318-11	MYLAR MYLAR CFRAMIC	0.01MF 0.022MF 0.001MF	10% 10% 10%	100V 100V 500V	R808 R809	1-202-846-00	SOLID METAL GLAZE	470K 47K	20% 5%	1/2W 1/10W				
(	811 🛭	1-137-544-11	FILM	0.01MF		600V	R810 R811	1-249-421-11 1-216-049-00	CARBON 2.2K 5%			1/4W 1/10W				
(	2812 <u>&amp;</u> 2813 2814 2815	1-137-545-11 1-106-385-00 1-106-383-00 1-126-233-11	FILM MYLAR MYLAR ELECT	0.013MF 0.056MF 0.047MF 22MF	3% 3% 5% 10% 20%	600V 200V 100V 50V	R812 R813 R814	1-249-439-11 1-249-414-11 1-249-377-11	CARBON	68K 560 0.47	5% 5% 5%	1/4W 1/4W 1/4W	F			
	816 817	1-124-798-11 1-130-800-00	ELECT FILM	1MF 2.2MF	20% 10%	160V 250V	 	<var< td=""><td>IABLE RESISTO</td><td>R&gt;</td><td></td><td></td><td></td><td></td></var<>	IABLE RESISTO	R>						
(	2818 2819	1-102-228-00 1-162-116-00	CERAMIC CERAMIC	470PF 680PF	10% 10%	500V 2KV	RV801	1-223-102-00			120					
į	2820	1=162-116-00	CERAMIC	680PF	10%	2KV	 	<tra< td=""><td>NSFORMER&gt;</td><td></td><td></td><td></td><td></td><td></td></tra<>	NSFORMER>							
			NECTOR>				T801 1-437-082-31 HDT T802 ▲ 1-439-526-11 TRANSFORMER ASSY, FLYBACK									
(	N802	*1-564-595-11 *1-508-766-00 *1-564-508-11	PLUG, CONNECT PLUG, CONNECT PLUG, CONNEC	OR (5MM PITO	CH) 4P		1002 AS 1-459-520-11 INANSPORMEN ASSI, FEIDALA						***	****		
Ċ	N805	*1-560-123-00	PLUG, CONNEC	CTOR (2.5MM)	3P		*1-641-723-11 FA BOARD *********									
r	801	<dio 8-719-300-33</dio 					1-533-223-11 CLIP, FUSE *4-341-751-01 EYELET EY6, EY7									
1	0802 0803	8-719-300-33 8-719-300-33	DIODE RU-3AM	1				¥4-341-752-01	EYELET EY	î, EŸ3,	EY8, I	EY9				
D	0804 0805	8-719-979-85 8-719-300-33	DIODE EGP-20 DIODE RU-3AM	)G			<connector></connector>									
. D	806 807 808 808	8-719-300-33 8-719-105-XX 8-719-008-28 8-719-911-55	DIODE RD6.2M THYRISTOR CR	1-B1			CN602 :	*1-580-689-11 *1-508-765-00 1-564-507-11	PIN. CONNECT	OR (5MM	OARD) Pitch)	4P 3P				
C	0810	8-719-911-55	DIODE UOSG				 	<fus< td=""><td>E&gt;</td><td></td><td></td><td></td><td></td><td></td></fus<>	E>							
	)811 )813	8-719-911-55 8-719-300-33		1			F601 <u>∧</u>	, 1-576-230-11	FUSE (H.B.C.	) (3.15A	/250V)					
		<c0i< td=""><td>L&gt;</td><td></td><td></td><td></td><td></td><td><res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></res<></td></c0i<>	L>					<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></res<>	ISTOR>							
	.802 .803	1-459-442-00 1-422-613-11	COIL (WITH C	CORE)			R602	1-202-721-00	SOLID	1.5M	20%	1/2W				
L	.804 .805 <u>∧</u>	1-459-109-00 1-460-225-11	COIL, DUST CO COIL, HORIZO	ORE ONTAL LINEARI	ΙΤΥ			<swi< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td></td><td></td></swi<>	TCH>							
		1-407-500-00 1-407-500-00	INDUCTOR	4.7MMH			S601	₾ 1-692-050-1	1 SWITCH, PUS	H (AC PO	WER)	(1KEY)				
L	.807	1-401-500-00	INDUCTOR	4.7MMH			****	*********	******	******	****	*****	***:	******		

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.



REF.NO. PART NO.	DES	CRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	****	DARD, COMPLETE	. (2.33.2.)		C453 C454 C460	1-124-234-00 1-128-499-11 1-126-301-11	ELECT ELECT ELECT	22MF 220MF 1MF	20% 20% 20%	16V 16V 50V
<b>*</b> 4-341-752	-11 TERMI -11 TERMI -01 EYEL:		(LINE B) (LINE A)&	AC INLET	C461 C462 C464 C465 C466	1-126-301-11 1-163-031-11 1-163-031-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	20% 20%	50V 50V 50V 50V 50V
C401 1-124-234 C402 1-124-234	-00 ELEC	22MF	20% 20%	16V 16V	C467	1-163-031-11				50V
C403 1-124-234 C404 1-124-234 C405 1-124-234	-00 ELEC -00 ELEC	T 22MF	20% 20% 20% 20%	16V 16V 16V		<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></con<>	NECTOR>			
C406 1-124-234 C407 1-124-234 C408 1-124-463 C409 1-124-234 C410 1-124-234	-00 ELEC -00 ELEC -00 ELEC	T 22MF T 22MF T 0.1MF T 22MF	20% 20% 20% 20% 20%	16V 16V 50V 16V 16V	CN402 CN403	1-506-494-11 *1-564-518-11 *1-580-690-11 *1-564-519-11	PLUG, CONNECTO PIN, CONNECTO	TOR 3P OR (PC BOARD)	) 4P	
C411 1-124-234	-00 ELEC		20%	16V	i ! !	<dio< td=""><td></td><td></td><td>`</td><td></td></dio<>			`	
C412 1-124-234 C413 1-124-234 C414 1-126-157 C415 1-126-157	-00 ELEC -00 ELEC -11 ELEC	T 22MF T 22MF 1 T 10MF	20%	16V 16V 16V 16V	D401 D402 D403 D404 D405	8-719-404-46 8-719-404-46 8-719-110-09 8-719-404-46 8-719-404-46	DIODE MA110	S-B3		
C416 1-126-157 C417 1-126-157 C418 1-126-157 C419 1-126-157 C420 1-126-157	-11 ELEC -11 ELEC -11 ELEC	T 10MF T 10MF T 10MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	D406 D407 D408 D409 D410	8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO			
C421 1-102-125 C422 1-124-464 C423 1-126-157 C424 1-126-157 C425 1-108-634	-00 CERA -11 ELEC -11 ELEC -11 ELEC -11 MYLA	T 0.22MF T 10MF T 10MF	10% 20% 20% 20% 10%	50V 50V 16V 16V 100V	D411 D412 D413 D414 D415	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110			
C426 1-128-499 C427 1-128-499 C428 1-124-589 C429 1-124-234 C430 1-163-033	-11 ELEC -11 ELEC -00 ELEC	T 220MF T 47MF T 22MF MIC CHIP 0.022MF	20% 20% 20% 20%	16V 16V 16V 16V 50V	D416 D417 D418 D419 D420	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46				
C433 1-124-234	-00 CERA -00 ELEC -00 CERA	T 22MF MIC CHIP 0.022MF	20% 20% 20%	16V 50V 16V 50V 16V	D421 D422 D423 D424 D425	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110			
C437 1-163-033 C438 1-124-234	-00 CERA -00 ELEC -00 CERA	MIC CHIP 0.022MF MIC CHIP 0.022MF T 22MF MIC CHIP 0.022MF MIC CHIP 0.022MF	20%	50V 50V 16V 50V 50V	D426 D427 D428 D429 D430	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO			
C441 1-124-234 C442 1-163-033 C443 1-163-033 C444 1-163-033 C445 1-163-031	-00 CERA -00 CERA -00 CERA	T 22MF MIC CHIP 0.022MF MIC CHIP 0.022MF MIC CHIP 0.022MF MIC CHIP 0.021MF MIC CHIP 0.01MF	20%	16V 50V 50V 50V 50V	D431	8-719-404-46 <1C>	DIODE MA110	· · · · · · · · · · · · · · · · · · ·		
C446 1-163-031 C447 1-126-301 C448 1-124-234 C449 1-163-031 C450 1-124-234	-11 ELEC -00 ELEC -11 CERA	T 22MF MIC CHIP 0.01MF	20% 20% 20%	50V 50V 16V 50V 16V	IC401 IC402 IC403		IC MM1149XF IC AN5265			
C451 1-163-033 C452 1-128-499		MIC CHIP 0.022MF T 220MF	20%	50V 16V	L401 L402	1-410-682-31 1-410-682-31	INDUCTOR	470UH 470UH		

# QA

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
Q401	<pre></pre>						R438 R439 R440	1-216-091-00 1-216-063-00 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE	56K 5% 3.9K 5% 120 5%	1/10W 1/10W 1/10W	
0402 0403 0404 0405	8-729-920-74 8-729-216-22 8-729-920-74 8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2412K SA1162- C2412K C2412K	-QR G -QR -QR			R441 R442 R443 R444	1-216-089-00 1-216-049-00 1-216-087-11 1-214-702-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL METAL GLAZE	47K 5% 1K 5% 39K 5% 75 1% 1K 5%	1/10W 1/10W 1/10W 1/4W 1/10W	
Q406 Q407 Q408 Q409 Q410	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2412K C2412K C2412K C2412K C2412K	-QR -QR -QR -QR -QR			R446 R447 R448 R449	1-216-093-00 1-216-091-00 1-216-063-00 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 5% 56K 5% 3.9K 5% 120 5% 75 1%	1/10W 1/10W 1/10W 1/10W	
Q411 Q412 Q413 Q414 Q416	8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22 8-729-145-18	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162- A1162- A1162- A1162- C3736	G G G			R450 R451 R452 R453 R454	1-214-702-00 1-216-049-00 1-216-091-00 1-216-093-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 1% 1K 5% 56K 5% 68K 5% 3.9K 5% 330 5%	1/4W 1/10W 1/10W 1/10W 1/10W	
Q417 Q418 Q419 Q420 Q421	8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-01 8-729-901-06	TRANSISTOR DT TRANSISTOR DT TRANSISTOR DT TRANSISTOR DT TRANSISTOR DT	A144EK A144EK A144EK C144EK A144EK				R455 R456 R457 R458 R459	1-214-702-00 1-216-049-00 1-216-091-00 1-216-093-00 1-216-037-00 1-216-085-00 1-216-085-00 1-247-707-11 1-216-087-01 1-216-089-00 1-216-115-00 1-216-105-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	33K 5% 33K 5% 390 5% 39K 5%	1/10W 1/10W 1/10W 1/4W 1/10W	
Q422 Q423 Q424	8-729-901-01 8-729-901-06 8-729-901-06	TRANSISTOR DT TRANSISTOR DT TRANSISTOR DT	C144EK A144EK A144EK				R460 R461 R462	1-216-089-00 1-216-097-00 1-216-115-00	METAL GLAZE METAL GLAZE METAL GLAZE	- :-	1/10W 1/10W 1/10W	- 10000
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>R463 R464 R465</td><td>1-216-105-00 1-216-077-00 1-216-025-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>100K 5% 560K 5% 220K 5% 15K 5% 100 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR>					R463 R464 R465	1-216-105-00 1-216-077-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 560K 5% 220K 5% 15K 5% 100 5%	1/10W 1/10W 1/10W 1/10W	
R401 R402 R403 R404 R405	1-214-702-00 1-216-049-00 1-216-093-00 1-216-091-00 1-216-063-00	METAL METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 68K 56K 3.9K	5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W		R466 R467 R468 R469 R470	1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 560K 5% 220K 5% 15K 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R407 R408 R409	1-216-037-00 1-216-087-11 1-216-085-00 1-214-702-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL	330 39K 33K 75 1K	5% 5% 1% 5%	1/10W 1/10W 1/10W 1/4W 1/10W		R471 R472 R473 R474 R475	1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00 1-216-025-00	METAL GLAZE METAL GLAZE	100K 5% 560K 5% 220K 5% 15K 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R412 R413 R414	1-216-093-00 1-216-091-00 1-216-063-00 1-216-037-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	68K 56K 3.9K 330 3.3K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R477 R479 R480 R481 R482	1-216-081-00 1-216-085-00 1-247-711-11 1-247-720-11 1-249-455-11	CARBON	22K 5% 33K 5% 680 5% 3.9K 5%	1/10W 1/10W 1/4W 1/4W 1/4W	
R416 R417 R418 R419 R420	1-216-023-00 1-216-049-00 1-216-093-00 1-216-091-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82 1K 68K 56K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R483 R484 R485 R486 R487	1-249-389-11 1-216-041-00 1-247-688-11 1-216-037-00 1-249-468-11	CARBON METAL GLAZE CARBON METAL GLAZE CARBON	4.7 5% 470 5% 10 5% 330 5% 82K 5%	1/4W F 1/10W 1/4W F 1/10W 1/4W	
R421 R422 R423 R424 R425	1-216-027-00 1-214-702-00 1-214-702-00 1-216-049-00 1-216-093-00	METAL GLAZE METAL METAL GLAZE METAL GLAZE	120 75 75 1K 68K	5% 1% 5% 5%	1/10W 1/4W 1/4W 1/10W 1/10W		R488 R489 R490 R491 R492	1-249-468-11 1-249-468-11 1-216-057-00 1-216-089-00 1-216-089-00	CARBON CARBON METAL GLAZE METAL GLAZE METAL GLAZE	82K 5% 82K 5% 2.2K 5% 47K 5% 47K 5%	1/4W 1/4W 1/10W 1/10W 1/10W	
R426 R427 R428 R429 R430	1-216-091-00 1-216-063-00 1-216-037-00 1-214-702-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL METAL GLAZE	56K 3.9K 330 75 1K	5% 5% 1%	1/10W 1/10W 1/10W 1/4W 1/10W		R493 R494 R495 R496 R497	1-216-089-00 1-216-089-00 1-216-295-00 1-216-057-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 47K 5% 0 5% 2.2K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R431 R432 R433 R434 R435	1-216-093-00 1-216-091-00 1-216-063-00 1-216-027-00 1-214-702-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL	68K 56K 3.9K 120 75	5% 5% 5% 1%	1/10W 1/10W 1/10W 1/10W 1/4W		R498 R499 R1401 R1403 R1404	1-216-089-00 1-216-089-00 1-216-097-00 1-216-295-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 47K 5% 100K 5% 0 5% 100K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R436 R437	1-216-049-00 1-216-093-00	METAL GLAZE METAL GLAZE	1K 68K	5% 5%	1/10W 1/10W		-					

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<i>1</i> }	REF. NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK	
}	RV401	<var 1-230-481-11<="" td=""><td>IABLE RESISTOR RES, VAR, CAR</td><td></td><td></td><td></td><td>C512 C513 C514 C515</td><td>1-106-375-12 1-106-375-12 1-106-371-00 1-124-925-11</td><td>MYLAR</td><td>0.022MF 0.015MF</td><td>10%</td><td>100V 100V 100V 50V</td><td></td></var>	IABLE RESISTOR RES, VAR, CAR				C512 C513 C514 C515	1-106-375-12 1-106-375-12 1-106-371-00 1-124-925-11	MYLAR	0.022MF 0.015MF	10%	100V 100V 100V 50V	
}		************* *1-64 <u>1</u> -720-11		*******	******	******	C516 C517 C518 C519 C520	1-124-925-11 1-130-480-00 1-163-245-11 1-124-927-11 1-163-129-00	ELECT FILM CERAMIC CHIP ELECT CERAMIC CHIP	4.7MF	5% 5% 20%	50V 50V 50V 50V 50V	
			ACITOR>		.0%	<b>6</b> 111	C521 C523 C524 C525	1-124-907-11 1-106-363-00 1-102-116-00 1-102-820-00	ELECT MYLAR CERAMIC CERAMIC	10MF 2 0.0068MF 1	20% 10% 10%	50V 100V 50V 50V	
}	C702	1-162-114-00 1-102-050-00 1-161-830-00	CERAMIC CERAMIC CERAMIC	0.0047MF 0.01MF 0.0047MF	10% 99% 99%	2KV 500V 500V	C526 C527 C528 C529 C530	1-102-973-00 1-124-122-11 1-102-125-00 1-124-910-11 1-163-097-00	CERAMIC ELECT CERAMIC CHIP	100MF 0.0047MF 47MF 15PF	20% 10% 20%	50V 50V 50V 50V 50V	
	UN702 *	*1-564-509-11 *1-508-784-00 *1-564-508-11	PLUG, CONNECT PIN, CONNECTO	R (5MM PITC	H) 1P	*	C531 C532 C533	1-131-370-00 1-124-557-11 1-124-927-11 1-124-768-11	TANTALUM ELECT	6.8MF 1000MF 24.7MF 2	10% 20% 20% 20%	16V 25V 50V 50V 50V	
	L701	<coi! 1-410-668-11="" <res<="" td=""><td></td><td>27UH</td><td></td><td></td><td>C536 C537 C538 C539</td><td>1-124-927-11 1-124-484-11 1-124-910-11 1-136-113-00</td><td>ELECT</td><td>220MF 2 47MF 2 2MF 5</td><td>20% 20% 20%</td><td>35V 50V 200V 50V</td><td></td></coi!>		27UH			C536 C537 C538 C539	1-124-927-11 1-124-484-11 1-124-910-11 1-136-113-00	ELECT	220MF 2 47MF 2 2MF 5	20% 20% 20%	35V 50V 200V 50V	
•	R702	1-202-822-00 1-202-822-00 1-202-822-00 1-202-838-00		2.2K 20% 2.2K 20% 2.2K 20% 100K 20% 1M 20%	1/2W 1/2W 1/2W 1/2W 1/2W		C541 C542 C545 C546 C547	1-163-035-00 1-126-103-11 1-126-101-11 1-124-907-11	CERAMIC CHIP ELECT ELECT ELECT	0.047MF 470MF 2 100MF 2	20% 20% 20%	50V 16V 16V 50V 50V	
	-	1-202-842-11 <var< td=""><td>SOLID IABLE RESISTOR</td><td>220K 20%</td><td>1/2W</td><td></td><td>C548 C549 C550</td><td>1-124-907-11 1-124-907-11</td><td>ELECT ELECT ELECT ELECT CERAMIC</td><td>10MF 2 10MF 2 10MF 2</td><td>20% 20% 20% 20%</td><td>50V 50V 50V 50V 50V</td><td></td></var<>	SOLID IABLE RESISTOR	220K 20%	1/2W		C548 C549 C550	1-124-907-11 1-124-907-11	ELECT ELECT ELECT ELECT CERAMIC	10MF 2 10MF 2 10MF 2	20% 20% 20% 20%	50V 50V 50V 50V 50V	
	4	1-230-164-00 *4-376-132-11 *4-376-133-11	COVER (MAIN),	CV VOL; RV	; KV701 701	******	C553 C563 C564 C567	1-126-103-11 1-106-383-00 1-163-009-11 1-124-907-11	ELECT MYLAR CERAMIC CHIP ELECT	470MF 2 0.047MF 1 0.001MF 1 10MF 2	20% 10% 10% 20%	16V 100V 50V 50V	
			D BOARD, COMP ************* HOLDER, FUSE COVER, VOLUME	****		1	C569 C570 C571	1-130-736-11 1-130-471-00 1-163-117-00 1-124-913-11 1-101-004-00	FILM FILM CERAMIC CHIP ELECT CERAMIC	0.001MF 5	5% 5% 20%	50V 50V 50V 50V 50V	
	4	*3-738-015-01 4-382-854-01 4-382-854-11	COVER, (DIA. SCREW (M3X8), SCREW (M3X10)	6) CARBON V P, SW (+)	R		C574 C575 C831 C832	1-106-351-00	MYLAR MYLAR ELECT ELECT	0.0022MF 1 0.0022MF 1 10MF 2 10MF 2	.0% .0% .0%	100V 100V 50V 50V	
	C501 C502 C503	1-124-477-11 1-124-907-11 1-126-103-11	ELECT ELECT	47MF 10MF 470MF	20% 20% 20%	16V 50V 16V	C833 C834 C835	1-163-009-11 1-163-121-00 1-163-209-00 1-124-907-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 1 150PF 5 0.0015MF 5	0% % % 20%	50V 50V 50V	
	C504 C505 C506 C507 C508	1-124-902-00 1-106-381-12 1-124-903-11 1-106-367-00 1-124-903-11	MYLAR ELECT MYLAR	0.47MF 0.039MF 1MF 0.01MF 1MF	20% 10% 20% 10% 20%	50V 100V 50V 100V 50V	C838 C839 C840	1-163-209-00 1-136-163-00 1-106-351-00 1-163-209-00 1-163-209-00	CERAMIC CHIP FILM MYLAR CERAMIC CHIP CERAMIC CHIP	0.068MF 5 0.0022MF 1 0.0015MF 5	0% 0% %	50V 50V 100V 50V	
	C509 C510	1-136-173-00	FILM FILM	0.47MF 0.047MF 1MF	5% 5% 20%	50V 50V 50V	C843 C844 C845	1-124-902-00 1-124-902-00 1-124-477-11	ELECT ELECT ELECT ELECT	0.47MF 2 0.47MF 2 47MF 2	10% 10% 10%	50V 50V 25V 50V	



The components identified by shading and mark  $\triangle$  are critical for safety.
Replace only with part number specified.

	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C847 C848 C849 C1601 C1602	1-126-233-11 1-131-351-00 1-164-182-11 1-124-907-11 1-164-161-11	ELECT 22MF TANTALUM 4.7MF CERAMIC CHIP 0.0033MF ELECT 10MF CERAMIC CHIP 0.0022MF	20% 10% 10% 20% 10%	50V 35V 50V 50V 50V	D1612 D1613 D1614	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
C1603 C1604 C1605 C1606 C1607	1-124-903-11 1-128-500-51 1-124-922-11 1-102-074-00 1-124-907-11	ELECT 1MF ELECT 1000MF ELECT 1000MF CERAMIC 0.001MF ELECT 10MF	20% 20% 20% 10% 20%	50V 50V 50V 50V 50V	D1616 D1617 D1618 D1621	8-719-977-49 8-719-977-49 8-719-510-12	DIODE MA110 DIODE DTZ15B DIODE DTZ15B DIODE D10SC4M	
C1608 C1609 C1610 C1611 C1612	1-126-233-11 1-163-009-11 1-124-927-11 1-124-482-11 1-136-257-00	ELECT 22MF CERAMIC CHIP 0.001MF ELECT 4.7MF ELECT 33MF FILM 0.0039MF	20% 10% 20% 20% 5%	50V 50V 50V 35V 50V	D1626 D1627 D1628	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
C1613 C1614 C1615	1-163-009-11 1-164-232-11 1-124-465-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF ELECT 0.47MF CERAMIC CHIP 470PF CERAMIC CHIP 100PF	10% 10% 20% 5%	50V 50V 50V 50V 50V	F1601			/125V)
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td>] [ ] !</td><td></td><td></td><td></td></con<>	NECTOR>			] [ ] !			
CN502 CN504 CN505	1-506-477-11 *1-564-507-11 *1-564-509-11	PLUG, CONNECTOR 3P PIN, CONNECTOR 12P PLUG, CONNECTOR 4P PLUG, CONNECTOR 6P PLUG, CONNECTOR 8P			I C501 I C502 I C503 I C504			
		PIN, CONNECTOR (B3P-VH) PLUG, CONNECTOR 3P	) 3P		1 0505	8-759-009-51	IC MC14538BF	
		DE>			10833	8-759-509-29 8-759-509-37 8-759-009-51 8-759-509-91	IC XRU4070BF IC MC14538BF	
D501 D502 D503	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			: 	. <c0i< td=""><td>L&gt;</td><td></td></c0i<>	L>	
D504 D505 D506 D507 D508	8-719-404-46 8-719-404-46 8-719-911-55 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE UO5G DIODE MA110 DIODE MA110			L501 L502 L503 L506 L1601	1-410-093-11 1-410-665-31 1-424-625-11 1-412-530-31 1-459-155-00	INDUCTOR 33MMH INDUCTOR 15UH COIL, CHOKE (PMC) 381.4UH INDUCTOR 27UH COIL (WITH CORE) 45UH	
D509 D510	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			L1602 L1603	1-424-626-12 1-410-397-21	COIL, CHOKE 390UH FERRITE BEAD INDUCTOR	
D511 D512 D514 D831	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110			0501		NSISTOR>	
D832 D833 D834 D835	8-719-404-46 8-719-404-46 8-719-404-46 8-719-109-89	DIODE MA110			Q501 Q502 Q503 Q504 Q505	8-729-901-01 8-729-901-06 8-729-901-01	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTA144EK TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR	
D836 D837 D838 D1601 D1602	8-719-404-46 8-719-404-46 8-719-105-XX	DIODE MA110 DIODE MA110 DIODE RD6.2M-B1 DIODE MA110			Q506 Q507 Q508 Q509 Q510	8-729-901-01 8-729-920-74 8-729-920-74	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR DTA144EK	
D1603	8-719-977-61 8-719-404-46	DIODE DTZ20B DIODE MA110			Q511 Q512	8-729-920-74	TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR	
	8-719-404-46 8-719-981-00 8-719-981-00 8-719-977-02 8-719-977-49	DIODE MA110 DIODE ERC81-004 DIODE ERC81-004 DIODE DTZ5.6A DIODE DTZ15B			Q513 Q514 Q515 Q516	8-729-216-22 8-729-313-42 8-729-901-01	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD1134-C TRANSISTOR DTC144EK	
	8-719-404-46				Q517 Q518 Q519 Q525	8-729-901-01 8-729-920-74 8-729-920-74	TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	



REF.NO.	PART NO.							PART NO.	DESCRIPTION			REM	IARK
Q532 Q533 Q833 Q834	8-729-920-74 8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	2412K- 2412K- 1162- 2412K-	-QR -QR -QR -QR			R537 R538 R539	1-215-867-00 1-216-095-00 1-216-095-00	METAL GLAZE	470 82K 82K	5%	1W F 1/10W 1/10W	•
Q835 Q836 Q1601 Q1602	8-729-920-74 8-729-309-08 8-729-920-74 8-729-920-74	TRANSISTUR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	2412K- 1890A 2412K- 2412K-	-UK -QR -QR			R540 R541 R542 R543 R544	1-216-101-00 1-216-063-00 1-216-075-00 1-216-065-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 3.9K 12K 4.7K 150K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q1603 Q1604 Q1605 Q1606 Q1607	8-729-216-22 8-729-119-80 8-729-133-42 8-729-920-74	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	2688-1 2688-1 2334-1 2412K-	K -QR			R545 R546 R547 R548 R549	1-216-041-00 1-216-091-00 1-216-121-00 1-216-107-00 1-216-101-00	METAL GLAZE METAL GLAZE	470 56K 1M 270K 150K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q1608 Q1609 Q1610 Q1611	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC	2412K- 2412K- 2412K- 2412K- 2412K-	-QR -QR -QR -QR -QR			R550 R552 R553 R554	1-216-356-00 1-216-061-00 1-216-087-11 1-216-073-00	METAL GLAZE	3.9 3.3K 39K 10K 15K		1W F 1/10W 1/10W 1/10W 1/10W	
Q1615 Q1616	8-729-216-22 8-729-216-22	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA	1162-0 1162-0	-QR -QR			R558 R559	1-216-057-00 1-216-049-00 1-216-065-00 1-216-037-00 1-216-081-00	METAL GLAZE	2.2K 1K 4.7K 330 22K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q1618	8-729-216-22 <res< td=""><td>TRANSISTOR 2SA  ISTOR&gt;</td><td>1162-0</td><td>59</td><td>1/106</td><td></td><td>R563 R564 R565</td><td>1-216-061-00</td><td>METAL GLAZE METAL GLAZE CARBON METAL GLAZE</td><td>1.5K_ 3.3K</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/4W F 1/10W 1/10W</td><td></td></res<>	TRANSISTOR 2SA  ISTOR>	1162-0	59	1/106		R563 R564 R565	1-216-061-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	1.5K_ 3.3K	5% 5% 5%	1/10W 1/10W 1/4W F 1/10W 1/10W	
		METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	47K 47K 47K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W	F	R567 R568 R569 R570	1-216-095-00 1-216-063-00 1-216-063-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 3.9K 3.9K 68K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R505 R506 R507 R508 R509	1-249-393-11 1-216-071-00 1-216-059-00 1-216-085-00 1-216-687-11	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	10 8.2K 2.7K 33K 33K	5% 5% 5% 5% 0.50%	1/4W 1 1/10W 1/10W 1/10W 1/10W	F	R571 R572 R573 R574 R575	1-216-089-00 1-216-095-00 1-216-063-00 1-216-063-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 82K 3.9K 3.9K 220K		1/10W 1/10W 1/10W 1/10W 1/10W	
R510 R511 R512 R513 R514	1-216-683-11 1-216-675-11 1-218-761-11 1-216-065-00 1-218-754-11	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL CHIP	22K 10K 240K 4.7K 120K	0.50% 0.50% 0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		R576 R577 R578 R579	1-216-109-00	METAL GLAZE CARBON CARBON METAL GLAZE	330K	5%	1/10W 1/10W 1/4W F 1/4W F	
R515 R516 R517 R518 R519	1-216-081-00 1-216-073-00 1-216-107-00 1-249-422-11 1-216-085-00	METAL GLAZE METAL GLAZE METAL CHIP CARBON	22K 10K 270K 2.7K 33K	5% 5% 0.50% 5%	1/10W 1/10W		R591 R592 R831 R832 R833	1-216-065-00 1-216-033-00 1-216-049-00 1-216-075-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 12K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R520 R521 R522 R523 R524	1-216-677-11 1-216-067-00 1-216-107-00 1-216-081-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	12K 5.6K 270K 22K 1K		1/10W 1/10W 1/10W 1/10W		R834 R835 R836 R837 R838	1-216-059-00 1-216-081-00 1-216-049-00 1-216-075-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 22K 1K 12K 1K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R525 R526 R527	1-216-049-00 1-216-434-11 1-216-079-00 1-249-437-11 1-216-073-00	METAL OXIDE METAL GLAZE CARBON	1.8K 18K 47K 10K	5% 5% 5% 5%	1/10W 1W 1/10W 1/4W 1/10W	F F	R839 R840 R841 R842	1-216-061-00 1-216-097-00 1-216-093-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 100K 68K 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R528 R529 R530 R531 R532	1-216-073-00 1-216-089-00 1-216-089-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 47K 47K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R843 R844 R847	1-216-065-00 1-216-077-00 1-216-049-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 15K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W	
R533 R534 R535 R536	1-216-089-00 1-216-097-00 1-216-053-00 1-212-881-11	METAL GLAZE METAL GLAZE	47K 100K 1.5K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/4W	F	R851 R852 R853 R854	1-216-669-11 1-216-675-11 1-216-105-00 1-218-754-11	METAL CHIP METAL CHIP METAL GLAZE METAL CHIP	5.6K 10K 220K 120K	0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	



The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R855 R856 R857 R858 R859	1-216-697-11 1-216-699-11 1-216-686-11 1-216-061-00 1-216-436-00	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL OXIDE	82K 100K 30K 3.3K 3.9K	0.50% 0.50% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	F	R1647 R1648 R1649 R1650	1-216-685-11 1-216-069-00 1-216-069-00 1-216-069-00 1-216-069-00 1-216-069-00	METAL CHIP 27K  METAL GLAZE 6.8K  METAL GLAZE 6.8K  METAL GLAZE 6.8K  METAL GLAZE 6.8K	0.50% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
R860 R861 R862 R863 R1503	1-216-675-11 1-216-671-11 1-216-675-11 1-249-435-11 1-216-049-00	METAL CHIP METAL CHIP METAL CHIP CARBON METAL GLAZE	10K 6.8K 10K 33K 1K	0.50% 0.50% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W	F	R1652 R1653 R1654 R1655 R1656	1-216-069-00 1-216-069-00 1-216-681-11 1-216-081-00 1-216-643-11	METAL GLAZE 6.8K METAL GLAZE 6.8K METAL CHIP 18K METAL GLAZE 22K METAL CHIP 470	5% 1/10W 5% 1/10W 0.50% 1/10W 5% 1/10W 0.50% 1/10W	
R1505 R1506 R1507 R1508	1-216-695-11 1-216-089-00 1-216-667-11 1-216-081-00 1-216-073-00	METAL CHIP METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	68K 47K 4.7K 22K 10K	0.50% 5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1657 R1658 R1659 R1660 R1661	1-216-069-00 1-216-681-11 1-216-081-00 1-216-643-11 1-216-081-00 1-216-063-00 1-216-049-00 1-216-649-11 1-216-065-00	METAL GLAZE 22K  METAL GLAZE 3.9K  METAL GLAZE 1K  METAL CHIP 820  METAL GLAZE 4.7K	5% 1/10W	
R1510 R1511 R1512	1-216-065-00 1-249-425-11 1-216-033-00 1-216-049-00 1-216-017-00	METAL GLAZE	4.7K	5%	1/10W	r			RES, ADJ, CARBON 4 RES, ADJ, CARBON 2 RES, ADJ, CERBET RES, ADJ, METAL GL RES, ADJ, CARBON 2		
R1601	1-216-031-00 1-216-053-00 1-216-685-11 1-216-681-11 1-216-671-11	METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL CHIP	6.8K	5% 5% 0.50% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		RV503 RV504 RV505	1-241-763-11 1-224-250-XX 1-238-009-11 1-238-012-11 1-238-013-11	RES, ADJ, CERMET 4 RES, ADJ, METAL GL RES, ADJ, CARBON 2 RES, ADJ, CARBON 1 RES, ADJ, CARBON 2	.7K AZE 2.2K 20 K	
R1607	1-216-070-00 1-216-070-00 1-216-071-00	METAL GLAZE	22K 7.5K 7.5K 8.2K 4.7K	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W	F	RV508 RV509 RV511 RV512	1-238-012-11 1-238-021-11 1-238-015-11 1-238-015-11	RES, ADJ, CARBON 1 RES, ADJ, CARBON 2 RES, ADJ, CARBON 1 RES, ADJ, CARBON 4 RES, ADJ, CARBON 2 RES, ADJ, CERMET 4 RES, ADJ, METAL GL	. 7K	
R1610 R1611 R1612	1-216-069-00 1-216-057-00 1-216-057-00 1-215-913-11 1-216-025-00	METAL GLAZE METAL GLAZE METAL OXIDE	6.8K 2.2K 2.2K 220 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 3W 1/10W	F	RV515 RV516 RV831 RV832 ■RV833	1-241-764-11	RES, ADJ, CARBON 2 RES, ADJ, CERMET 4 RES, ADJ, METAL GL RES, ADJ, CERMET 1 RES, ADJ, CERMET	20K . 7K AZE 100K OK	
R1615 R1616 R1617	1-216-067-00 1-216-657-11 1-216-629-11 1-216-659-11 1-216-073-00	METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL GLAZE	5.6K 1.8K 120 2.2K 10K	5% 0.50% 0.50% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV1601 RV1602 MRV1603	1-241-700-11 1-238-012-11 A	RES, ADJ, CERMET 2 RES, ADJ, CARBON 1 RES, ADJ, CERMET	2. 2K	
	1-216-065-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-246-00	METAL GLAZE	4.7K 10K 10K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		!		AY> RELAY (G2R-212P-V) NSFORMER>	-	
R1625 R1626 R1627 R1628 R1629	1-216-061-00 1-216-065-00 1-216-049-00 1-216-073-00 1-216-683-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	3.3K 4.7K 1K 1OK 22K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		*****	*******	TRANSFORMER, DRIVE	**************************************	******
R1630 R1631 R1632 R1633 R1634	1-216-683-11 1-216-057-00 1-216-042-00 1-216-109-00 1-216-099-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 2.2K 510 330K 120K	5%	1/10W 1/10W 1/10W 1/10W 1/10W			*4-348-208-00 *4-341-751-01	EYELET EY5		
R1635 R1636 R1640 R1641 R1642	1-216-097-00 1-216-073-00 1-216-063-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 10K 3.9K 10K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		CN001 CN002	1-506-478-11	NECTOR> PIN, CONNECTOR 13P PIN, CONNECTOR 8P	·	
R1643 R1644 R1645 R1646	1-216-069-00 1-216-069-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 6.8K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		D001 D002	8-719-920-05	DIODE SLP281C-50 DIODE RD3.6ESB1		

НΔ	X	S
11/7		0

REF.NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
		ISTOR>						CERAMIC CHIP CERAMIC CHIP			50V 50V
JW009 JW024 R001 R002 R003	1-216-295-00 1-216-295-00 1-247-713-11 1-216-295-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0 CARBON 1K METAL GLAZE 0 METAL GLAZE 0	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/4W 1/10W 1/10W		C1111 C1112 C1113 C1114 C1115	1-163-018-00 1-126-160-11 1-163-119-00 1-163-103-00 1-164-004-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0056MF 1MF 120PF 27PF 0.1MF	10% 20% 5% 5% 10%	50V 50V 50V 50V 25V
ROO4	1-216-081-00	METAL CLATE 228	59	1/106		C1116	1-162-114-00	CEDAMIC CUID	7EDD	E9'	50V 16V
	<var< td=""><td>IABLE RESISTOR&gt;</td><td></td><td></td><td></td><td>C1118 C1119 C1120</td><td>1-164-004-11 1-163-020-00 1-163-097-00</td><td>CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</td><td>0.1MF 0.0082MF</td><td>10% 10% 5%</td><td>25Y 50V 50V</td></var<>	IABLE RESISTOR>				C1118 C1119 C1120	1-164-004-11 1-163-020-00 1-163-097-00	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.0082MF	10% 10% 5%	25Y 50V 50V
RV001 RV002 RV003 RV004 RV005	1-241-846-11 1-241-846-11 1-241-845-11 1-241-845-11 1-241-845-11	IABLE RESISTOR>  RES, VAR, CARBON 2 RES, ADJ, METAL GL RES, ADJ, METAL GL RES, ADJ, METAL GL RES, ADJ, METAL GL	OK OK OK OK OK			C1121 C1122 C1123 C1130	1-163-097-00 1-163-222-11 1-163-097-00 1-163-097-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	15PF 5PF 15PF 15PF	5% 0.25PF 5% 5%	50V 50V 50V 50V 50V
RV006 RV007 RV008	1-241-845-11 1-226-773-11 1-226-773-11	RES, VAR, CARBON 2 RES, ADJ, METAL GL	OK AZE 22K AZE 22K				CUN	NECTORS		J.16	
RV009 RV010	1-226-773-11 1-226-773-11	RES, ADJ, METAL GL RES, ADJ, METAL GL	AZE 22K AZE 22K			CN1101	*1-565-488-11	CONNECTOR, BO	ARD TO BOAR	D 12P	
11011	1-440-713-11	RES, ADJ, METAL GL RES, ADJ, METAL GL	ALC ZZA			1 1 1 1					
	<swi< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td>D1101 D1102</td><td>8-719-404-46 8-719-404-46</td><td>DIODE MA110 DIODE MA110</td><td></td><td></td><td></td></swi<>	TCH>				D1101 D1102	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			
S001 S002	1-554-419-00	SWITCH, PUSH (1 KE SWITCH, PUSH (1 KE	Y) Y)			 	<10>				
S003 S004 S005	1-554-419-00 1-554-419-00	SWITCH, PUSH (1 KE SWITCH, PUSH (1 KE SWITCH, PUSH (1 KE	Y) Y) Y)			101101	8-752-056-67	IC CXA1214P			
S006		SWITCH, PUSH (1 KE				i i i i	<001	L>			
*****	************ *1-641-724-11	X BOARD	******	*****	*****	L1102 L1103 L1104	1-404-496-00 1-404-496-00 1-408-411-00	COIL COIL	15UH 15UH 15UH		
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>L1111</td><td>1-412-008-31</td><td>INDUCTOR CHIP</td><td>15UH</td><td></td><td></td></con<>	NECTOR>				L1111	1-412-008-31	INDUCTOR CHIP	15UH		
CN21	*1-564-518-11	PLUG, CONNECTOR 3P				1 1 1 1	- <tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
D21 D22 D23	<pre></pre>	E> DIODE SEL3810DLC05 DIODE SEL3810DLC05 DIODE SEL3810DLC05				Q1102 Q1103 Q1104	8-729-216-22 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR DT	C2412K-QR A1162-G A1162-G		
*****		S BOARD, COMPLETE	******	*****	******	01107	8-729-109-44	TRANSISTOR DT TRANSISTOR 2S TRANSISTOR 2S	K94-X4		
	3-710-578-01	COVER, VOLUME, 6 M	OLD					ISTOR>			
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>R1102</td><td>1-216-053-00 1-216-067-00 1-216-059-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>1.5K 5% 5.6K 5% 2.7K 5%</td><td>1/10W 1/10W 1/10W</td><td></td></cap<>	ACITOR>				R1102	1-216-053-00 1-216-067-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 5.6K 5% 2.7K 5%	1/10W 1/10W 1/10W	
C1101 C1102 C1103	1-164-004-11	CERAMIC CHIP 120PF CERAMIC CHIP 0.1MF ELECT 47MF	;	10%	50V 25V 16V	R1104	1-216-073-00	METAL GLAZE METAL GLAZE	5.6K 5% 2.7K 5% 10K 5% 180 5%	1/10W 1/10W 1/10W	
C1104 C1105		CERAMIC CHIP 0.01M CERAMIC CHIP 75PF	F -		50V 50V	R1107	1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 5% 8.2K 5% 390 5%	1/10W 1/10W 1/10W	
C1107	1-163-101-00 1-164-004-11 1-163-119-00	CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF CERAMIC CHIP 120PF		10%	50V 25V 50V	R1109	1-216-063-00 1-216-069-00	METAL GLAZE	390 5% 3.9K 5% 6.8K 5%	1/10W 1/10W 1/10W	



The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation

ray radiation.
Should replacement be required, replace only with the value originally used.

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PART NO.	DESCRIPTION		REMARK
R1111 1-216-065-00 R1112 1-216-063-00 R1113 1-216-069-00 R1114 1-216-055-00 R1115 1-216-061-00 R1116 1-216-069-00 R1117 1-216-061-00 R1118 1-216-073-00 R1119 1-216-049-00 R1120 1-216-097-00 R1121 1-216-121-00 R1122 1-216-039-00	METAL GLAZE 3.9K 5 METAL GLAZE 1.8K 5 METAL GLAZE 3.3K 5 METAL GLAZE 3.3K 5 METAL GLAZE 6.8K 5 METAL GLAZE 3.3K 5 METAL GLAZE 10K 5 METAL GLAZE 10K 5 METAL GLAZE 10OK 5 METAL GLAZE 10OK 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W % 1/10W % 1/10W % 1/10W		<pre></pre>	DIODE ESAC39M O6C DIODE D3SB60 DIODE 1SS119TD DIODE ERA38-06TP1 DIODE ERA38-06TP1 DIODE RD20ES-T1B3 DIODE ESAC39M O6C		
R1123 1-216-065-00 R1124 1-216-029-00 R1125 1-216-029-00 R1126 1-216-053-00 R1127 1-216-043-00 R1128 1-216-049-00 R1129 1-216-091-00	METAL GLAZE 150 5 METAL GLAZE 150 5 METAL GLAZE 1.5K 5 METAL GLAZE 560 5 METAL GLAZE 1K 5	% 1/10W % 1/10W % 1/10W % 1/10W		<1C> 1C601 ▲ 1-809-086-12 1C651 ▲ 8-759-908-15 PH601 ▲ 8-759-045-81	HIC CH-1018 IC TL43ICLP IC TLP732GR-LF2		
R1130 1-216-295-00 R1131 1-216-073-00 R1132 1-216-073-00 R1133 1-216-073-00 R1134 1-216-091-00	METAL GLAZE 0 5 METAL GLAZE 10K 5 METAL GLAZE 10K 5 METAL GLAZE 10K 5	% 1/10W % 1/10W % 1/10W % 1/10W		L601 A 1-424-616-11 L602 A 1-424-574-11 L651 A 1-424-255-41 L652 A 1-424-615-11	TRANSFORMER, LINE F L.F.T COIL, CHOKE (MOLDE) COIL, CHOKE		
< V A!	RIABLE RESISTOR>			<tra Q601 A 8-729-322-18</tra 	NSISTOR>	<b>\</b>	
	RES, ADJ, CARBON 4.7K RES, ADJ, CARBON 2.2K			4001 12 0 127 322 10	TRANSTSTON ESRITED	•	
		i i	SISTOR>	EP/ E(1	Р		
T1101 1-404-584-11	ANSISTOR> COIL	******	******	R601 \( \Delta \) 1-205-940-51 R602 \( \Delta \) 1-205-940-51 R603 \( \Delta \) 1-215-904-11 R604 \( \Delta \) 1-215-904-11 R605 \( \Delta \) 1-212-865-61	CEMENT 1.5 METAL OXIDE 100K METAL OXIDE 100K	5% 5W 5% 5W 5% 2W 5% 2W 5% 1/4W	44444
<b>∆</b> 4-812-134-11	G BOARD (SOPS-1021) ******** RIVET NYLON, 3.5 φ			R606 A 1-247-805-91 R607 A 1-260-128-91 R608 A 1-260-128-91 R609 A 1-215-904-51 R610 A 1-207-455-11	CARBON 270K CARBON 270K METAL OXIDE 100K	5% 1/4W 5% 1/2W 5% 1/2W 5% 2W 10% 1/2W	F
C601 ∆ 1-136-889-11	PACITOR>  METALIZED FILM 0.22MF METALIZED FILM-0.22MF CERAMIC 220PF CERAMIC 220PF	20% 20% 10% 10%	250V 250V 400V 400V	R611 A 1-247-789-91 R612 A 1-247-795-91 R613 A 1-215-904-51 R614 A 1-247-815-91 R651 A 1-215-886-51	CARBON 33 METAL OXIDE 100K CARBON 220 METAL OXIDE 100	5% 1/4W 5% 2W	F
C605 A 1-161-973-51 C608 A 1-161-742-51 C609 A 1-161-742-51 C610 A 1-125-724-11 C611 A 1-136-206-21	CERAMIC 220PF  CERAMIC 0.0022MF  CERAMIC 0.0022MF  ELECT 180MF  METALIZED FILM 0.033M	20% 20% IF 10%	400V 400V 400V 400V 630V	R652 ↑ 1-215-886-51 R653 ↑ 1-260-107-91 R654 ↑ 1-260-107-91 R655 ↑ 1-247-867-91 R656 ↑ 1-247-867-91	CARBON       4.7K         CARBON       4.7K         CARBON       33K         CARBON       33K	5% 2W 5% 1/2W 5% 1/2W 5% 1/4W 5% 1/4W	<b>F</b>
C612 A 1-124-910-51 C613 A 1-137-190-91 C614 A 1-137-190-91 C615 A 1-130-471-91 C651 A 1-161-925-11 C652 A 1-128-486-51	METALIZED FILM 0.22MF METALIZED FILM 0.22MF PE TEREPHTHALATE 0.00 CERAMIC 100PF B	5%	50V 50V 50V 50V 500V 50V	R657 ▲ 1-247-837-91 <var ■RV651 ▲ 1-237-443-11</var 	NIABLE RESISTOR>		
C653 A 1-128-485-51		20%	50V 50V	<tra< td=""><td>NSFORMER&gt;</td><td>RTER</td><td></td></tra<>	NSFORMER>	RTER	
				1	ramorounda, comb		
<00	NNECTOR> HORIZONTAL PIN ASSY 3			***************************************			*******

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

REF.NO. PART NO.

DESCRIPTION

REMARK

REMARK

### MISCELLANEOUS *******

1-544-252-11 SPEAKER 1-690-871-11 CABLE (MINI DIN) 8P V901 A.8-737-151-05 PICTURE TUBE (A20JKU10X) (PVM-9041QM) A.8-737-651-05 PICTURE TUBE (M20JMP10X) (PVM-9044QM)

**********************

### ACCESSORIES & PACKING MATERIALS

PART NO. DESCRIPTION ⚠.1-590-910-11 CORD SET, POWER (10.0A/250V)
1-690-871-11 CABLE (MINI DIN) 8P
2-990-241-02 HOLDER (A), PLUG
*3-170-078-01 HOLDER (B), PLUG
*3-704-301-01 BAG (STANDARD), PROTECTION 3-754-506-21 MANUAL, INSTRUCTION 4-034-835-01 PLATE, TALLY *4-034-955-01 CUSHION (UPPER) (ASSY) *4-034-956-01 CUSHION (LOWER) (ASSY) *4-035-784-01 INDIVIDUAL CARTON

# PVM-90410M/90440M

# SERVICE MANUAL

AEP Model
PVM-9041QM
Chassis No. SCC-F09B-A
PVM-9044QM
Chassis No. SCC-F09A-A

## **SUPPLEMENT-1**

### INTRODUCTION

• B board: The transistor is changed to the pair transistor (Q189).

The diodes are changed to the three-terminal diodes.

(D185, D186, D187, D188, D191, D390 and D1382)

• D board: The transistors are changed to the pair transistors.

(Q569, Q576, Q579 and Q599)

The diodes are changed to the three-terminal diodes.

(D520, D521, D848, D1620, D1622 and D1623)

• S board: The pattern is modified.

### Note)

Before using the circuit board, confirm that the parts number shown below and the parts number of the circuit board which is being used in your set are the same.

Board (Complete No.)	Board Part. No.		
B (A-1135-716-A)	1-641-716-15		
D (A-1346-018-A)	1-641-717-16		
S (A-1394-368-A)	1-641-719-15		



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### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

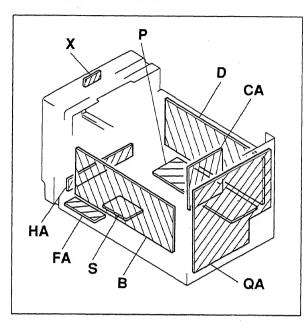
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### **SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

# SECTION 1 DIAGRAMS

### 1-1. CIRCUITS BOARDS LOCATION



Part replaced (☑)	Adjustment (☑)
IC601, IC651, PH602, C655, R653, R655, R656, R657, RV651	RV651 (B+ MAX)
Q1601, Q1602, Q1603, D1601, D1603, D1622, D1623, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1601, RV1603	RV1603 (B+ MAX IN DC POWER INPUT MODE)
IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863, NL801	R833 (HOLD-DOWN)

# 1-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

### Note:

- All capacitors are in  $\mu F$  unless otherwise noted. pF:  $\mu \mu F$  50 WV or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

- All resistors are in ohms.
- : nonflammable resistor.
- fusible resistor.
- $\triangle$  : internal component.
- panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
   Should replacement be required, replace only with the value
- originally used.

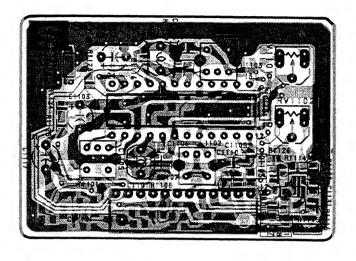
  ◆ When replacing components identified by ☑, make the
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.
- When replacing the part in below table be sure to perform the related adjustment.

### Reference information

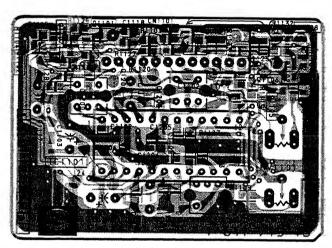
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE



- S Board - - Component Side -

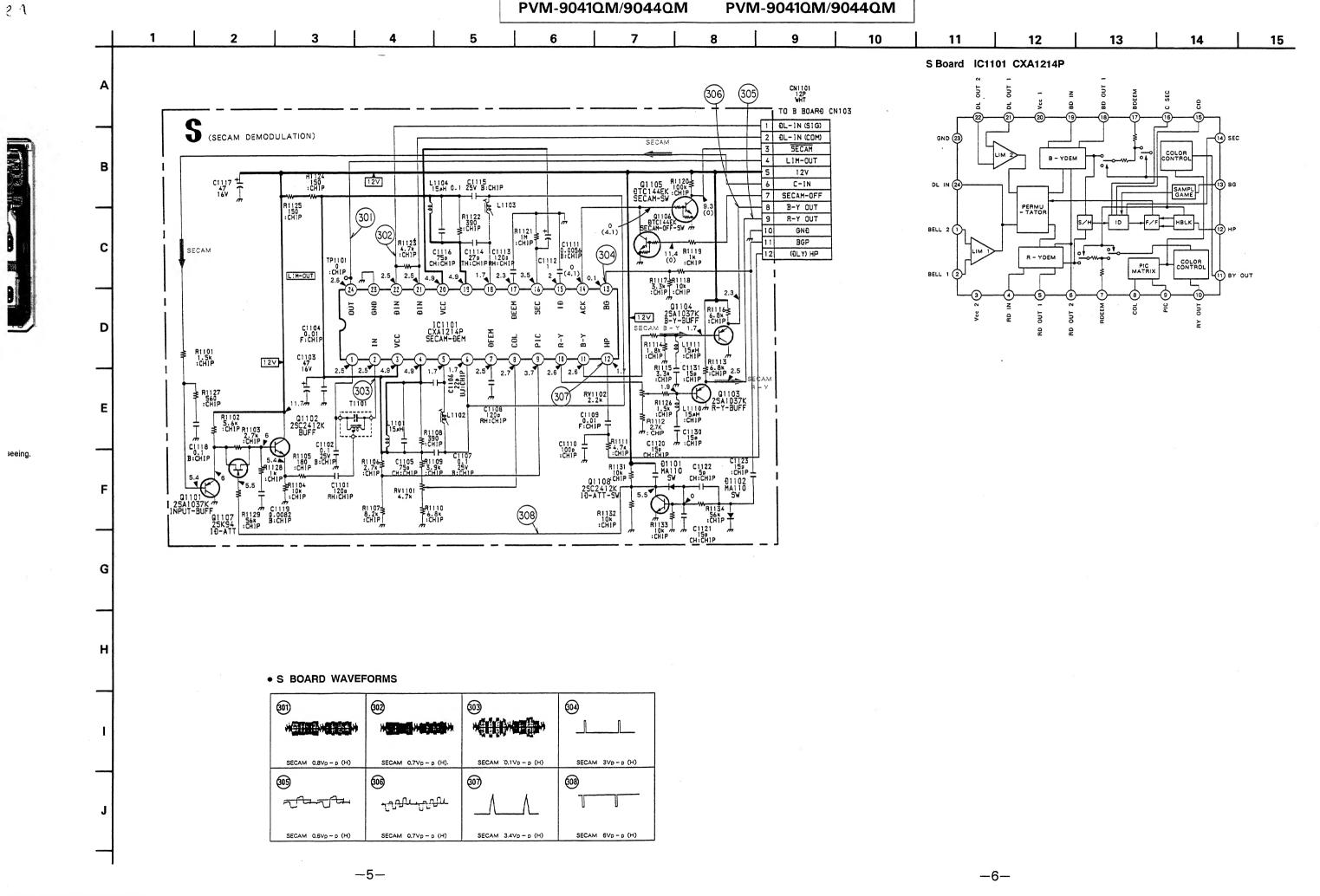


- S Board - - Conductor Side -



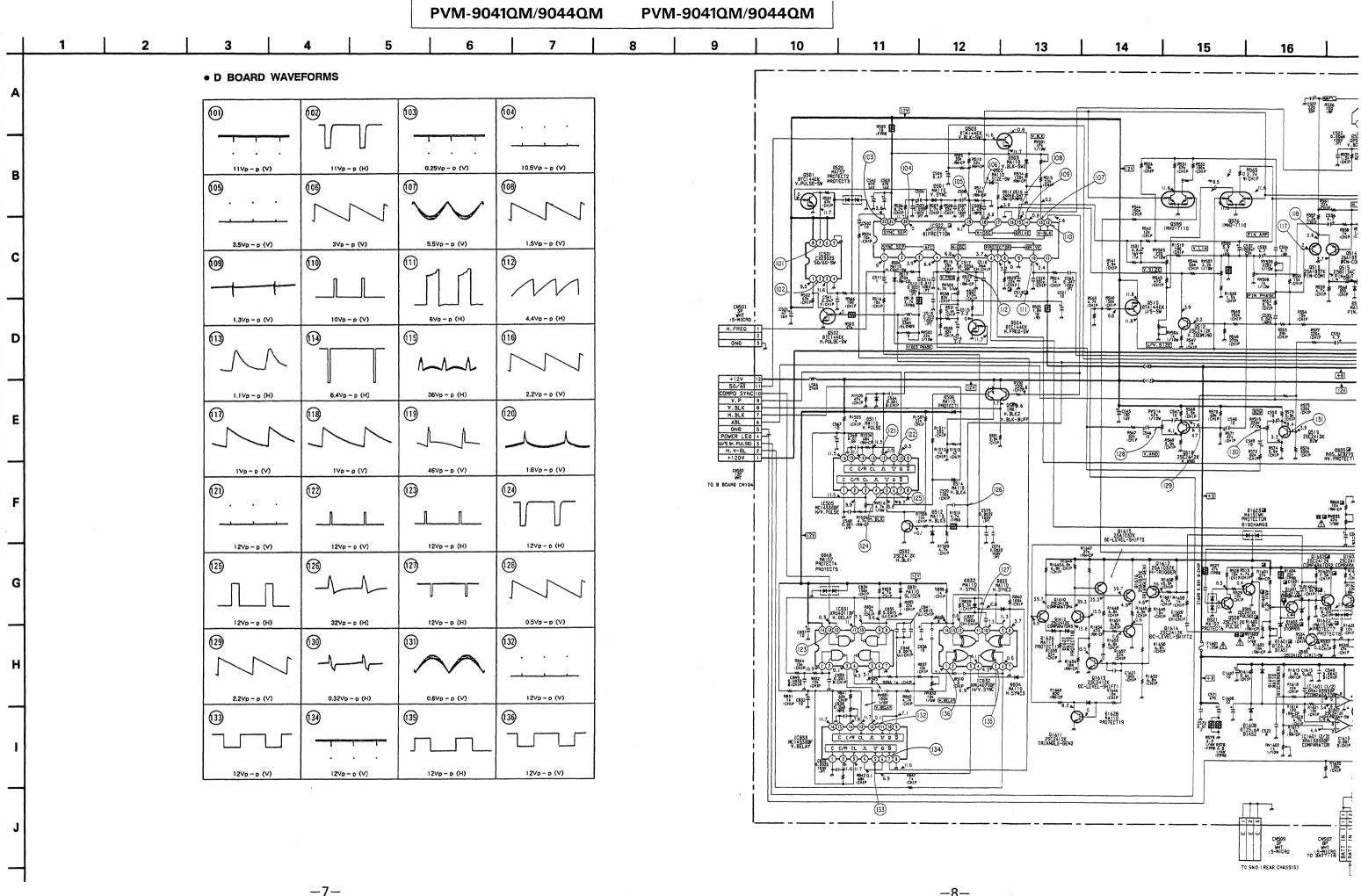
- Pattern from the side which enables seeing.
- : Pattern of the rear side.

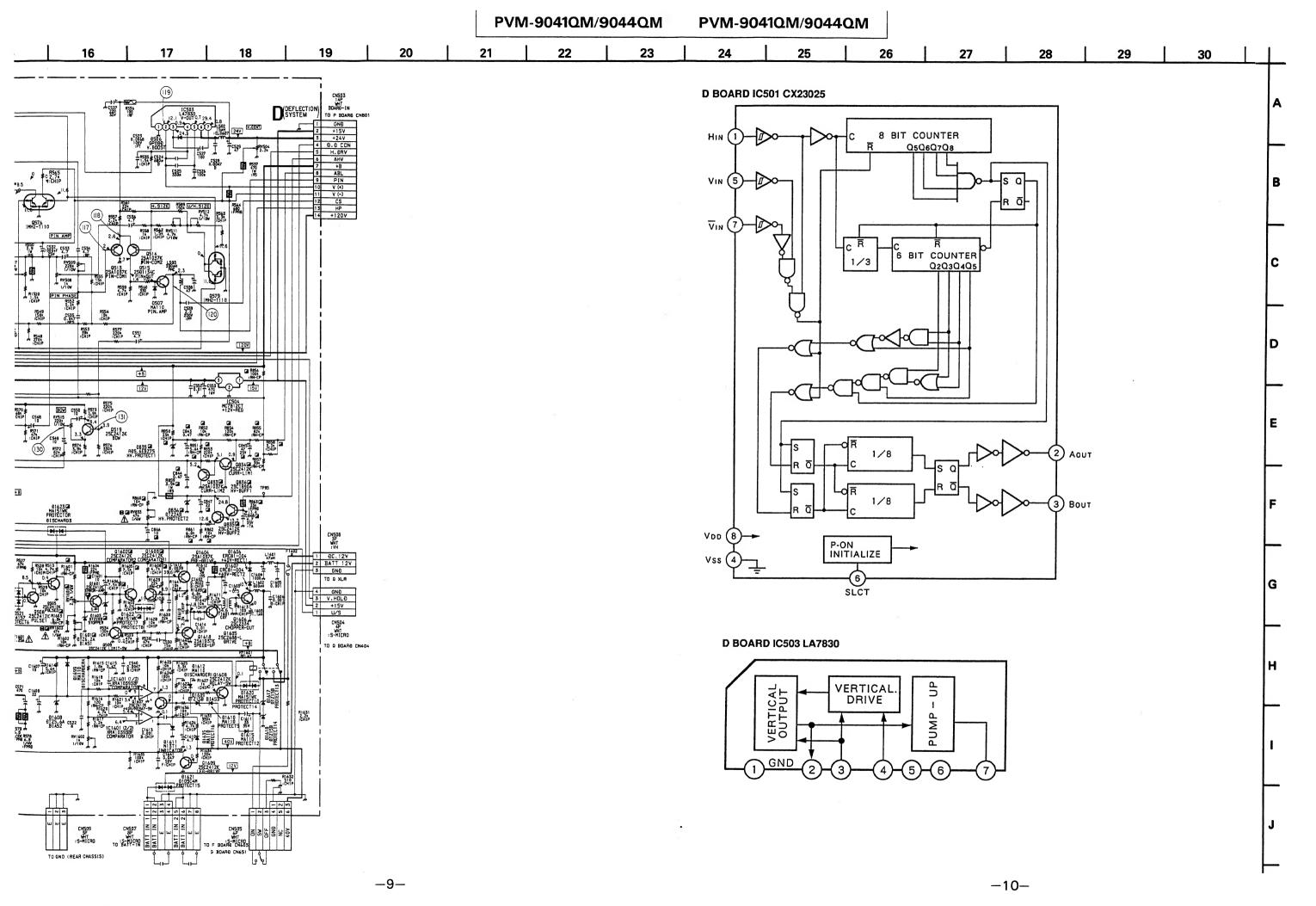
-3-



SONY SP-00151/ DRUCK32

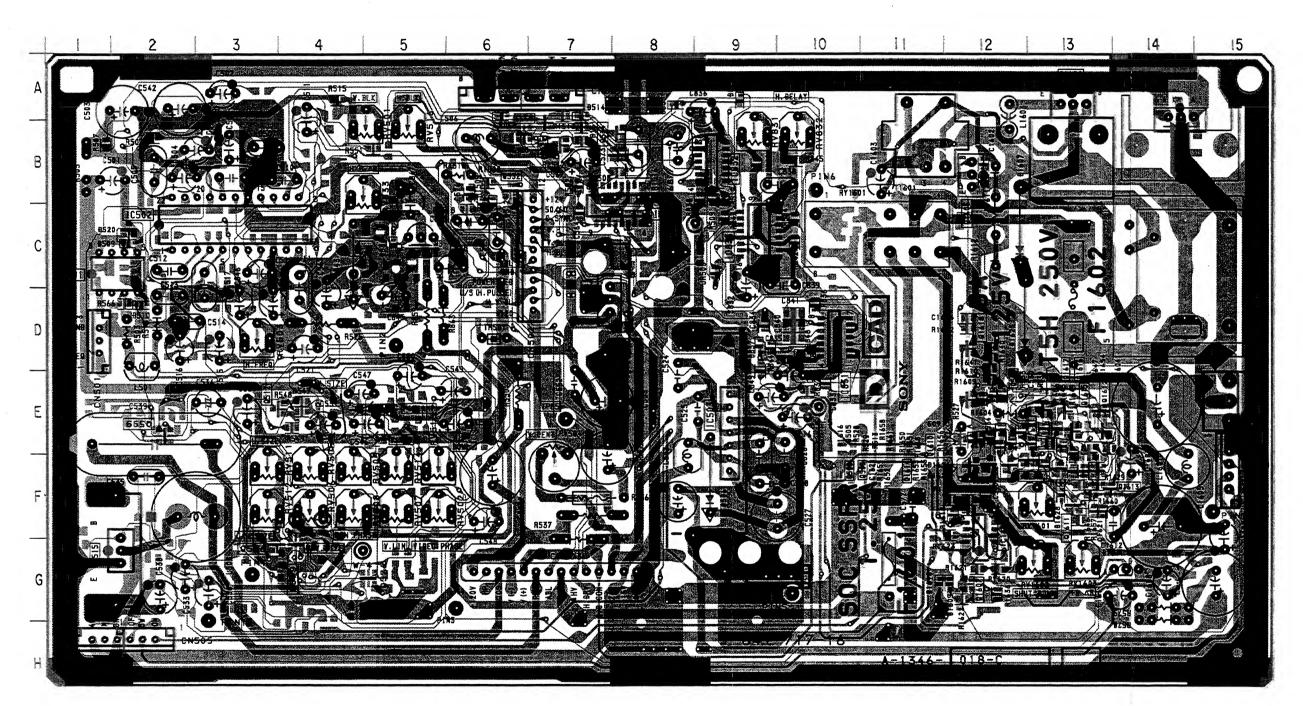
3





D [DEFLECTION SYSTEM]

- D Board - - Component Side -



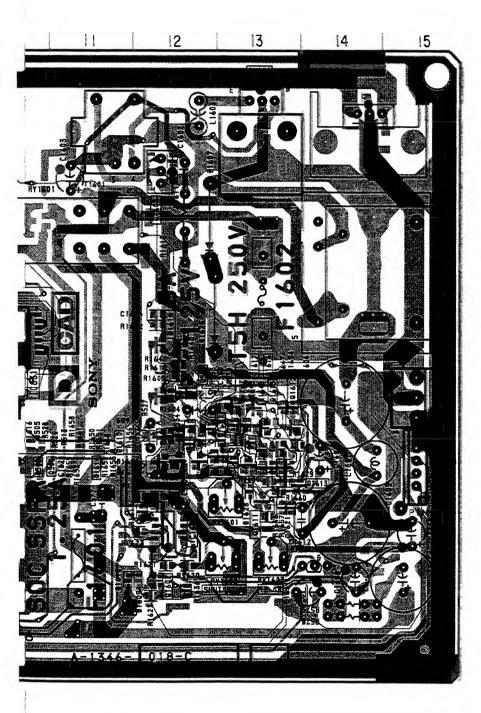
### D Board (Component Side)

10	2
IC505 IC831 IC832 IC833 IC1601	C-9
TRANS	SISTOR
Q509 Q512 Q532 Q576 Q579 Q599 Q1607 Q1610 Q1611 Q1612 Q1613 Q1614 Q1615 Q1616 Q1617	F-12 F-12 E-12 E-4 B-6 G-5 G-4 E-2 E-13 F-13 F-13 E-13 E-13 E-13 E-13 D-12
DI	ODE
D508 D512 D514 D520	C-6

D833 A - 8 D834 A - 9 D836 C - 5 D848 D - 10 D1609 G - 12 D1610 G - 10 D1626 F - 13

D1627 F-13 D1628 F-13

- Pattern from the side which enables seeing.
   Pattern of the rear side.



### D Board (Component Side)

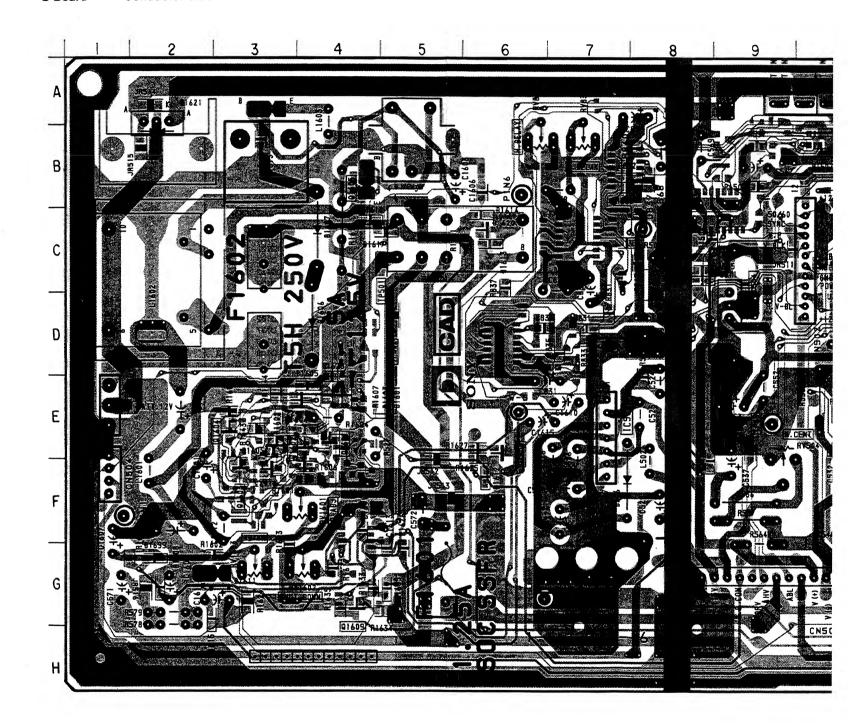
IC831 IC832 IC833 IC1601	C-9
TRAN	SISTOR
Q505	F-12
Q508	F-12
Q509	E-12
Q512	E - 4
Q532	B - 6
Q576	G – 5
Q579	G – 4
Q599	E - 2
	G - 12
	E - 13
	F - 13
	E - 13
	F - 13
Q1614	F - 13

IC505 C-8

Q1614 F-13 Q1615 E-13 Q1616 E-13 Q1617 E-13 Q1618 D-12 DIODE

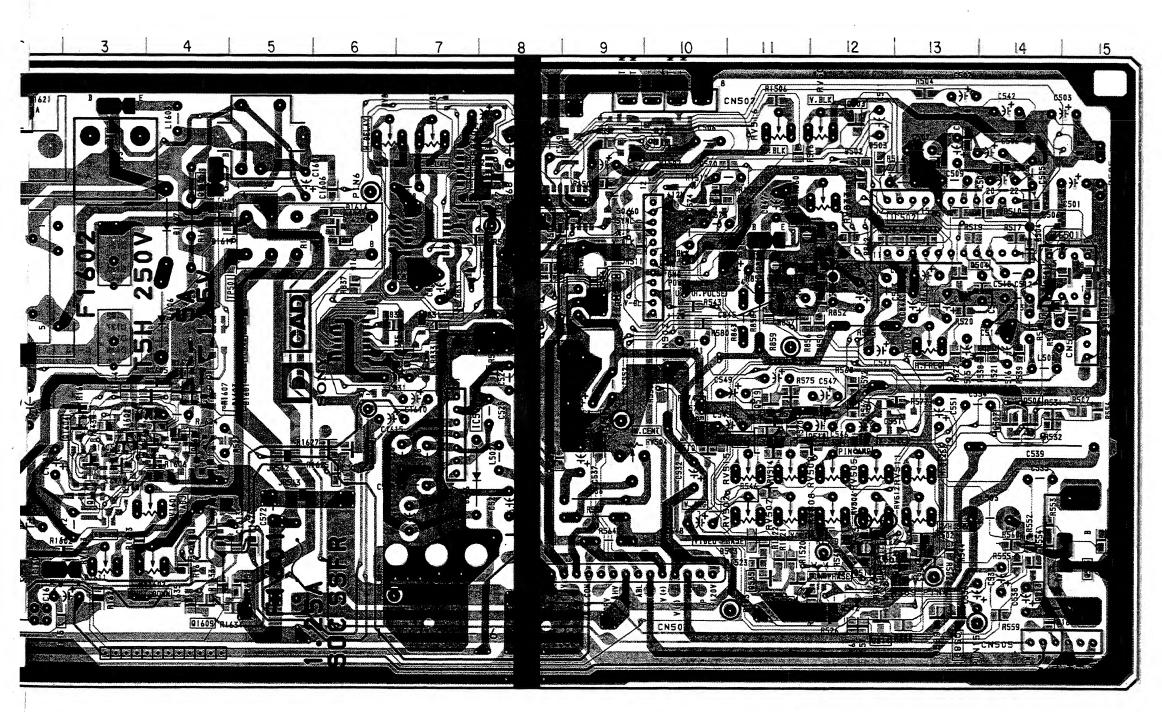
D508 A - 6
D512 C - 6
D514 A - 7
D520 C - 2
D521 F - 12 D833 A - 8 D834 A - 9 D836 C-5 D848 D - 10 D1609 G - 12 D1610 G - 10 D1626 F - 13 D1627 F-13 D1628 F-13

- D Board - - Conductor Side -



Pattern from the side which enables seeing.
 Pattern of the rear side.

r Side -



### D Board (Conductor Side)

	) Boa	rd (Con	ductor	Side)
		IC	D835 D1601	C-12 E-4
Γ	IC501	C-15	D1603	E-4
	IC502	C-13	D1606	D-4
-	IC503	E-7	D1607	C - 4
1	IC504	D-9	D1608	G - 2
-			D1611	G – 3
L			D1612	F-6
	TRAN	SISTOR	D1615	G-2 C-4
ŀ	Q501	C - 15	D1618	C-4
-	Q502	D - 15	D1620	C-6
-	Q503	A - 12	D1622	E-4
-	Q504	C - 13	D1623	F-3
-		E - 10	D1635	G-5
	Q510		D1699	G-2
-	Q513	G - 14	3,000	U-2
1	Q515	G - 15		
	Q518	E-12	VAR	ABLE
1	Q519	E - 11		STOR
	Q569	B-6		
	Q589	G - 13	RV501	B - 12
	Q833	C - 12	RV502	F - 11
1	Q834	C - 11	RV503	D - 13
	Q835	C - 11	RV504	E – 9
	Q836	C - 11	RV505	F - 12
1	Q1601	E – 4	RV506	F-12
1	Q1602	E – 4	RV507	F-11
1	Q1603	F-3	RV508	F - 12
١	Q1604	E - 3	RV509	F-12
1	Q1605	B <b>-</b> 4	RV511	F - 13
	Q1606	A - 3	RV512	F - 13
1	Q1608	E - 6	RV514	F-11
1	Q1609	G <b>–</b> 4	RV515	F - 11
			RV516	B - 11
H			RV831	B - 7
	DIC	DDE	RV832 RV833	B – 6 B – 12
	D501	B - 13	RV1601	F-4
	D502	B-12	RV1602	G – 4
	D503	B - 12	RV1603	
1	D504	C-14		•
1	D506	F-7		
	D507	G – 15		
,	D511	C-8		
	D589	G = 13		
	D831	D-7		
1	D832	B-7		
1	J002	5-1		
L				

- Pattern from the side which enables seeing.
   Pattern of the rear side.



- B Board - - Component Side -

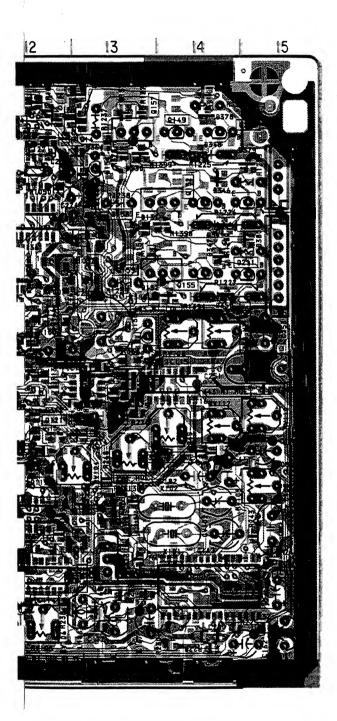
# 

### B Board (Component Side)

			ic Oldo,
IC		Q189 Q191	G – 4 B – 2
IC103 G- IC104 E- IC105 G- IC106 F- IC107 E- IC108 E- IC109 F- IC111 E- IC111 E- IC113 G- IC114 G- IC1	- 9 - 8 - 9 - 6 - 2 - 2 - 2 - 2 - 12 - 11 - 14 - 12	Q193 Q196 Q197 Q198 Q200 Q204 Q205 Q206 Q208 Q212 Q299	B-1 B-2 B-2 A-3 F-8 B-9 A-9 A-8 B-3 C-11
IC116 D	- 14 - 11 - 6	DI	ODE
IC118 F- IC119 F- IC120 C- IC121 D IC122 D IC123 D IC125 C- IC126 C- IC127 C- IC128 E-	- 6 - 5 - 4 - 4 - 5 - 5 - 4 - 12 - 12 - 12 - 13 - 4	D107 D121 D122 D123 D128 D130 D131 D132 D137 D138 D139 D146 D151	D-2 E-4 E-4 C-4 E-1 B-13 C-14 D-14 G-11 B-13 C-13 C-13 C-15
TRANSIS	TOR	D152 D153	B - 4 B - 4
Q104 G- Q109 A Q115 C- Q119 F- Q121 E- Q124 G- Q129 G- Q132 C- Q136 F- Q137 F- Q138 F- Q150 G- Q150 G-	- 6 - 10 - 12 - 1 - 12 - 12 - 11 - 3 - 5 - 6 - 5 - 5 - 6 - 8 - 12 - 9 - 9	D154 D156 D157 D162 D188 D191 D342 D343 D344 D345 D346 D347 D348 D349 D350 D390 D393	B-13 C-13 A-13 B-11 C-9 C-1 D-12 F-8 A-14 B-14 C-14 B-14 C-14 B-14 C-14 B-14 C-14 B-14 C-14 B-14 C-14 B-14 C-14 B-14 C-14 B-14 C-14 C-14 C-14 C-14 C-14 C-14 C-14 C

Pattern from the side which enables seeing.

Pattern of the rear side.

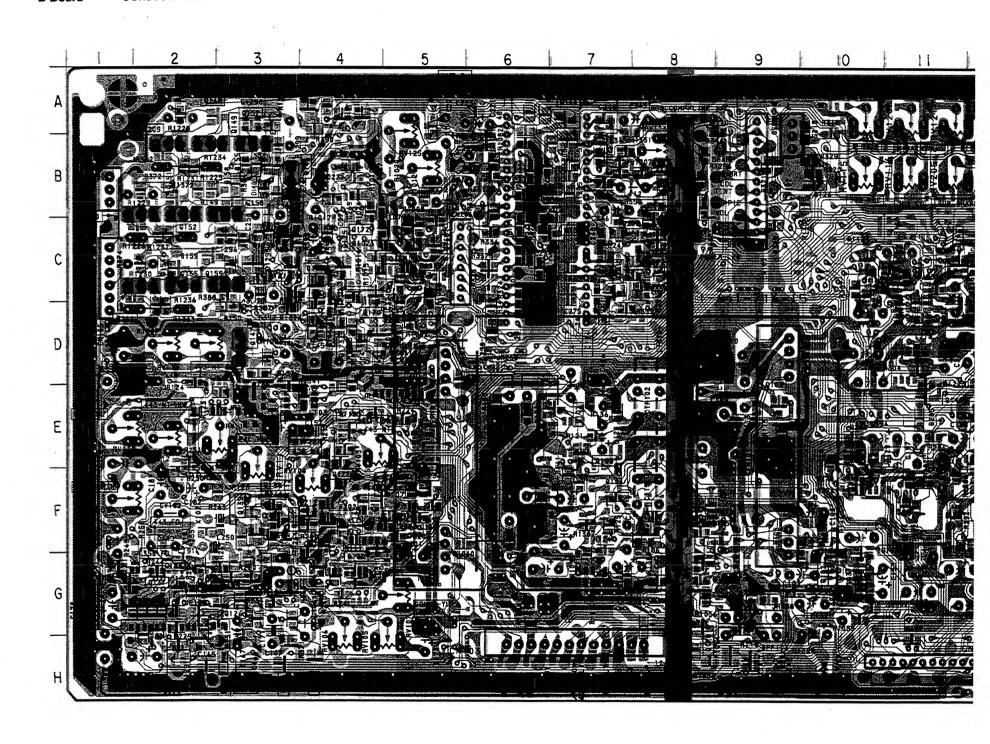


### B Board (Component Side)

	IC	Q189 Q191	G – 4 B – 2
IC102	G-9	Q193	B - 1
IC103	G-8	Q196	B - 2
IC104	E-9	Q197 Q198	B - 2 A - 3
IC105 IC106	G-6 F-2	Q200	F - 8
IC108	E-2	Q204	B <b>-</b> 9
IC108	E-2	Q205	A-9
IC109	C - 2	0206	A - 8
IC110	F – 12	0208	B - 3
IC111	E-11	Q212 Q299	C - 11 A - 11
IC113	G - 14	0255	A-11
IC114 IC115	G – 12 E – 14		
IC116 IC117	D = 11 F = 6	DI	ODE
IC117	F-5	D107	D-2
IC119	F - 4	D121	E - 4
IC120	C-4	D122 D123	E - 4 C - 4
IC121	D-5	D123	E-1
IC122 IC123	D = 5 D = 4	D130	B - 13
IC123	C - 12	D131	C-14
IC126	C-12	D132	D-14
IC127	C-12	D137	G-11
IC128	E - 13	D138	B - 13
IC129	B <b>-</b> 4	D139 D146	C - 13 D - 12
		D151	C-5
TRAN	SISTOR	D152	B - 4
		D153	B - 4
Q101	F-6	D154	B - 13
Q104	G - 10	D156	C - 13 A - 13
Q109	A – 12	D157 D162	A - 13 B - 11
Q115 Q119	C - 1 F - 12	D188	C-9
Q121	E - 12	D191	C - 1
Q124	F - 11	D342	D-12
Q129	G – 3	D343	H – 2
Q132	C - 5	D344	F-8
Q136	F - 6	D345	A - 14
Q137	F - 5	D346	B - 14
Q138	F-5	D347	C-14
Q141	C - 6	D348 D349	B - 14 C - 14
Q150 Q164	G – 8 B – 12	D349	D - 14
Q166	B = 12 D = 12	D390	D - 1
Q171	F-9	D393	G-3
Q176	F-9		
		İ	

- Pattern from the side which enables seeing.
- Pattern of the rear side.

- B Board - - Conductor Side -



r Side -

### B Board (Conductor Side)

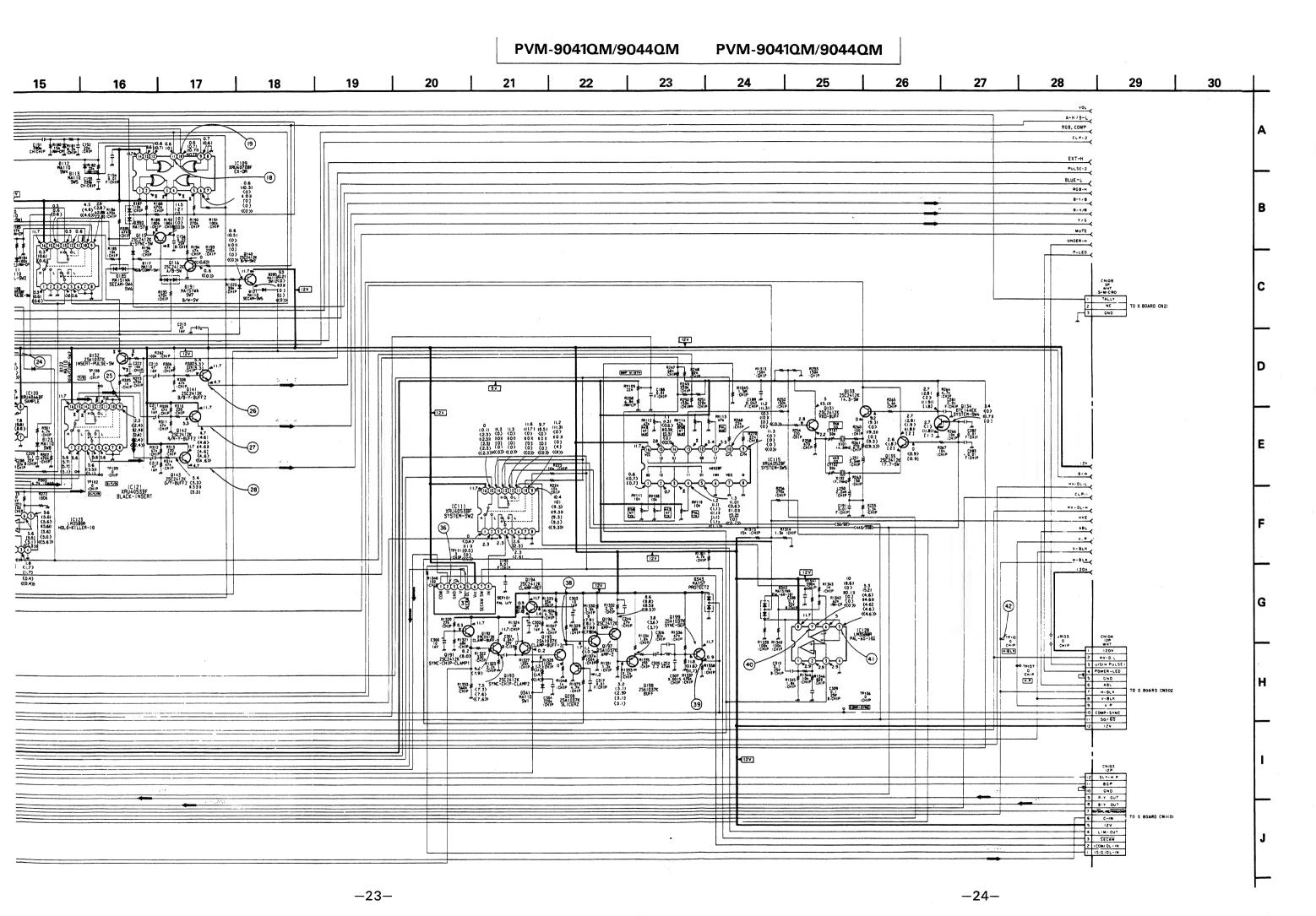
	IC	Q174 Q175	C - 4 C - 4		IABLE STOR
IC112	G - 3	Q177	A – 4	RV101	G - 15
IIC124	C - 7	Q179	A – 4	RV102	G - 14
		Q190 Q192	C - 12 B - 14	RV103	E - 4
TRAN	ISISTOR	Q194	B - 15	RV104	F-4
III/AIN		Q195	B - 14	RV105 RV106	H – 5 H – 4
Q102	G - 10	Q199	A - 15	RV107	G - 5
Q103	E - 9	Q201	C - 7	RV108	D - 2
Q106	F - 10	Q202	C - 8	RV109	F - 1
Q107 Q108	E - 7	Q203	C-8	RV110	E - 1
Q112	E - 7 D - 14	Q210 Q211	B - 2 C - 2	RV111	D ~ 2
Q113	D - 14		٠.	RV112 RV113	E - 2 F - 3
Q114	D - 15			RV114	E - 3
Q116	E - 15	DI	ODE	RV115	A - 10
Q117 Q118	F – 15 E – 4	D104	F - 7	RV116	B - 11
0120	F – 4	D105	G-8	RV118	B - 12
Q122	F-4	D106	D-14	RV119 RV120	A - 12 A - 11
Q123	F - 5	D108	E-14	RV121	A - 11
Q125	H – 2	D109	E - 14	RV122	A - 10
Q126	G – 3 H – 4	D110	F – 14 F – 15	RV123	B – 8
Q127 Q128	H – 4. H – 3	D111 D112	C - 15	RV124	B - 5
0130	G - 4	D113	C-14	RV125 RV205	A - 5
Q131	G – 2	D117	E-14	AV205	B - 11
Q133	G - 3	D120	H - 3		
Q134	F - 3	D125	A - 10		
Q135	F - 3	D126	B - 10		
Q139 Q140	F - 12 E - 11	D127 D129	F – 13 H – 2		
0142	C - 10	D133	B - 6		
Q143	C - 11	D134	C - 6		
Q144	A - 7	D135	C - 6		
Q145	C - 7	D136	D - 3		
Q146 Q147	B – 3 D – 3	D144 D145	D – 4 D – 4		
0148	A – 2	D147	A-5		
Q149	B - 2	D148	B - 3		
Q151	B - 2	D149	B <b>-</b> 2		
Q152	B - 2	D150	D - 3		
Q153	C - 7 C - 2	D155	B - 3		
Q154 Q155	C-2	D158 D159	B - 3 C - 2		
Q157	B-3	D160	D - 12		
Q158	B - 3	D161	D - 12		
Q159	C - 3	D170	G - 13		
Q160	A – 4	D185	E - 14		
Q161 Q165	C - 3 D - 4	D186 D187	F – 8 G – 14		
Q165	C-5	D187	G = 14 E = 11		
0168	C-5	D289	B - 8	1	
Q170	C-4	D341	B - 14		
Q172	C - 4	D1382	D - 12		
Q173	D-4				

 [:] Pattern from the side which enables seeing.

Pattern of the rear side.

-22-

-21-



(57)-

RI 054 : CHIP 0 RI 055 : CHIP 0 : CHIP 159 : CHIP

B (2/2)

(SIGNAL PROCESS)

-26-

CLP-2

HV-0L-L

CLP-1

HV-0L-H

HVE

V.P.

ABL

V-BLK

H-BLK

5.A

R1310 R317 820k \$330k :CHIP :CHIP

(55)

-25-

0393 MA110 ▼ U/S-S♥

R1393

RI 303 470a . CHIP

### — B Board —

Α	< manufacture >										
		PAL	SECAM	NTSC 3.58	NTSC 4.43	8 (Y/C)	ANALOG RGB	COMPO- NENT			
Q113	Ε	0.5	0.5	0.4	0.4	0.5	0.5	0.5			
	В	1.0	1.0	0.9	0.9	0.9	0.9	1.0			
Q115	Ε	11.2	9.3	0.0	10.6	0.0	0.0	0.0			
	В	2.8	2.2	0.1	2.4	0.1	0.1	0.0			
Q118	Ε	0.0	0.0	1.7	1.7	1.7	1.7	1.7			
Q119	В	0.1	0.0	1.7	1.7	1.7	1.7	1.7			
Q121	Ε	0.0	0.0	1.7	1.7	1.7	1.7	1.7			
Q122	В	0.0	0.0	1.7	1.7	1.7	1.7	1.7			
Q130	E	4.3	4.3	4.4	4.4	4.5	4.4	4.4			
	В	3.7	3.7	3.8	3,8	3.9	3.8	3.8			
Q132	Ε	2.3	2.3	2.4	2.3	2.4	2.4	2.4			
	С	1.8	1.7	1.7	1.7	1.7	1.8	1.8			
	В	2.7	2.6	2.6	2.7	2.8	2.7	2.8			
Q146	c	116.7	114.4	110.4	113.2	113.7	114.3	114.1			
Q147	E	117.9	115.6	111.6	114.5	115.0	115.5	115.4			
	С	126.0	123.5	120.3	123.4	123.8	124.6	124.4			
	В	119.8	119.5	110.5	118.4	118.2	114.2	114.2			
Q148	С	88.1	84.9	91.2	83.4	82.6	82.5	82.2			
	В	94.0	93.3	86.3	92.4	92.1	94.2	90.6			
Q149	Ε	1.6	1.6	1.4	1.7	1.7	1.7	1.7			
	C	86.1	84.9	91.2	83.4	82.7	82.5	82.5			
Q151	E	90.7	91.4	98.0	87.9	87.0	86.5	86.4			
4131	c	89.2	89.8	96.5	86.4	85.3	84.9	84.7			
	В	92.1	92.7	100.2	89.5	92.4	90.5	9.88			
Q152	E	86.1	88.0	92.6	82.6	82.9	82.6	82.7			
4132	c	10.8	10.5	9.7	10.9	10.9	10.9	11.0			
Q154	В	92.5	92.9	89.8	90.1	88.7	90.4	89.2			
Q155	В	88.3	88.5	95.7	85.7	83.9	84.6	83.9			
Q157	E	82.4	81.1	87.5	79.9	79.9	80.8	79.4			
4157	В	86.0	84.8	91.2	84.4	82.7	82.5	82.1			
Q158	E	1.6	1.5	1.3	1.6	1.6	1.7	1.7			
4100	В	2.1	2.0	1.8	2.1	2.2	2.2	2.2			
Q159	E	1.6	1.6	1.3	1.6	1.7	1.7	1.7			
	В	2.2	2.1	1.5	2.1	2.2	2.2	2.2			
Q163	E	0.2	0.6	2.7	0.5	-0.5	-0.7	-0.6			
Q166	В	0.9	0.9	0.6	1.0	1.0	1.0	1.0			
Q188	c	2.1	2.0	1.6	2.1	2.2	2.1	2.2			
Q170	В	2.3	2.3	2.1	2.4	2.4	2.4	2.4			
Q172	В	2.2	2.1	1.9	2.2	2.3	2.2	2.3			
Q173	B	1.7	1.6	1.4	1.7	1.7	1.7	1.7			
Q174	E	2.1	2.0	1.8	2.1	2.2	2.2	2.2			
4114	В	1.6	1.5	1.3	1.6	1.6	1.7	1.7			
Q178	В	6.2	6.3	6.2	6.3	6.1	6.2	8.2			
Q209	E	83.4	81.5	87.9	80.3	80.4	80.4	79.8			
4208	c	115.8	113.2	110.7	113.2	113.8	114.5	114.2			
	В	87.8	86.4	92.8	85.0	84.3	84.2	83.8			
Q210	E	86.5	86.3	93.1	83.0	83.3	83.0	82.8			
4210	C	116.5	114.2	111.5	113.9	114.5	115.1	114.8			
2011	+-	<del> </del>	113.6	111.7	113.3	113.8	114.5	114.3			
Q211	C	115.9	113.6	111.7	113.3	113.6	114.3	114.3			

		PAL	SECAM	NTSC	NTSC	S (Y/C)	ANALOG	
				3.58	4.43		RGB	NENT
IC102	0	6.6	6.8	0.0	6.6	0.0	0.0	0.0
IC108	0	0.2	0.1	0.1	0.1	0.1	0.1	0.2
	<b>(4)</b>	1.8	1.7	1.7	1.7	1.7	1.8	1.8
IC107	2	10.7	10.7	10.6	10.6	10.6	10.6	10.6
	0	1.2	10.7	0.0	0.0	0.0	0.0	0.0
IC108	0	9.7	0.4	9.7	9.6	9.8	1.1	9.8
IC109	0	11.3	11.3	0.0	10.8	0.0	0.0	0.0
	3	11.3	11.4	0.0	11.3	0.0	0.0	0.0
	<b>(4)</b>	11.7	0.0	0.0	11.7	0.0	0.0	0.0
	(3)	11.0	11.1	0.0	11.0	0.0	0.0	0.0
IC110	@	2.1	2.2	2.5	2.5	2.5	2.5	2.5
	0	11.3	11.3	0.0	11.3	0.0	0.0	0.0
	0	11.3	11.3	0.0	0.0	0.0	0.0	0.0
	0	0.8	0.8	2.5	2.5	2.5	2.5	2.5
	0	1.7	1.7	2.5	2.6	2.5	2.5	2.5
IC113	<b>(4)</b>	2.7	1.1	2.6	2.6	2.6	1.1	1.1
	0	4.2	4.3	4.2	4.3	4.3	4.8	4.8
	0	3.0	2.9	2.8	3.0	2.8	2.9	2.9
	6	2.2	2.5	2.9	2.2	1.9	2.8	2.8
IC114	0	11.4	11.3	0.0	0.0	0.0	0.0	0.0
	(3)	3.7	3.7	3.8	3.8	3.8	3.9	3.9
IC115	3	1.2	1.1	0.8	0.7	0.7	0.6	0.6
	(3)	3.5	3.5	3.4	2.8	3.4	3.4	3.4
IC118	0	0.0	0.0	1.0	1.1	1.1	1.3	1.1
IC120	3	5.5	5.6	5.6	5.6	5.6	5.6	5.6
	<b>(4)</b>	5.5	5.6	5.6	5.6	5.6	5.0	5.8
IC121	(3)	5.3	5.3	5.4	5.2	5.2	5.1	5.1
	130	5.8	5.7	5.6	5.6	5.7	5.7	5.7
	(3)	5.6	5.7	5.6	5.6	5.7	5.7	5.6
IC122	0	5.3	5.3	5.4	5.2	5.2	5.1	5.1
	3	5.3	5.3	5.4	5.2	5.2	5.1	5.1
IC124	0	0.1	0.1	0.2	0.2	0.2	0.2	0.2
IC125	1	1.4	1.4	1.3	1.4	1.5	1.5	1.5
1C126	0	1.6	1.5	1.3	1.6	1.6	1.7	1.6
	(3)	1.6	1.5	1.3	1.6	1.6	1.6	1.7
	100	1.7	1.6	1.4	1.7	1.7	1.8	1.7
IC127	0	3.0	2.9	2.6	3.0	3.1	3.0	3.0
	0	1.4	1.4	1.3	1.5	1.5	1.5	1.5
	0	2.1	2.7	2.4	2.8	2.8	2.8	2.8

### • B BOARD WAVEFORMS

1)	2		3	
	1hrrhrr	-756-76-		Mayoria Magazia
S (Y/C) 0.5Vp-p (H)	RGB 1Vp-p (H)	COMPONENT 0.5Vp - p (H)	RGB 1Vp-p (H)	COMPONENT 1Vp-p(H)
4		⑤		6
urumurum	-1000-1000		1	भिन्मिन
RGB 0.8Vp-p (H)	COMPONENT 0.75Vp - p (H)	PAL 1Vp-p (H)	S (Y/C) 1Vp-p (H)	PAL 0.9Vp - p (H)
6	y Congression	"Les" Les"	7 Hall 2004 - Hall 2004 :	8
SECAM 1.1Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H)	S (Y/C) 1Vp-p (H)	S (Y/C) 0.5Vp - p (H)	SECAM IVp-p(H)
® y <b>an</b>	J. C.	11-11-1	9	v
NTSC3.58 1Vp - p (H)	NTSC4.43 1Vp - p (H)	S (Y/C) 1Vp-p (H)	PAL 0.75Vp - p (H) SECAM 0.75Vp - p (H)	NTSC3.58 1Vp - p (H)
9	100			10
	中華華中中	-	HAME STORY	+ 100 -++ 100
NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	PAL 0.2Vp - p (H)	NTSC3.58 0.3Vp-p (H)	NTSC4.43 0.15Vp - p (H)	PAL 0.3Vp - p (H)
11)		12	13	
a)iii)		-	Maria Paria	NTSC3.58 1Vp - p (H)
SECAM 0.2Vp - p (H)	NTSC3.58 0.2Vp - p (H) NTSC4.43 0.3Vp - p (H)	S (Y/C) 0.2Vp - p (H)	PAL 0.9Vp - p (H) SECAM 0.9Vp - p (H)	NTSC4.43 IVp - p (H) S (Y/C) IVp - p (H)
(13)		14	(15)	16
	البهميه البهب	1 1		
RGB 0.8Vp-p (H)	COMPONENT IVp-p(H)	4Vp - p (H)	12Vp - p (H)	12Vp - p (H)
17	118	19	@	<b>(2)</b>
			100011-100111	-Manth
12Vp - p (H)	12Vp-p (H)	12Vp-p (H)	SECAM 0.6Vp - p (H)	SECAM 0.5Vp - p (H)
	البست البست	, real real	<b>3</b>	<b>4 4 4 4 4 4 4 4 4 4</b>
PAL 0.7Vp - p (H)	SECAM 0.8Vp - p (H)	NTSC3.58 1Vp-p (H) NTSC4.43 1Vp-p (H) S (Y/C) 1Vp-p (H)	12Vp – p (H)	12Vp – p (H)

	T _			
<b>2</b> 5	(a) (a)		արիլ. արիլ.	
	All All	-4 ¹ 11111111111111111111111111111111111	-11001100. <del></del>	¹ dda Adan
12Vp - p (H)	PAL 1.2Vp - p (H)	SECAM 1.2Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H)	S (Y/C) 1.2Vp-p (H)
<b>2</b> 6		<b>2</b>		
	-10001000		-Manne	-
RGB 1.4Vp - p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.3Vp - p (H)	SECAM 1.2Vp - p (H)	NTSC3.58 1.3Vp - p (H) NTSC4.43 1.3Vp - p (H) S (Y/C) 1.3Vp - p (H)
<b>27</b>		<b>8</b>		
nnnn	75-76	~~~~~	A.A.	
RGB 1.4Vp - p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.2Vp - p (H) SECAM 1.2Vp - p (H) COMPONENT 1.4Vp - p (H)	NTSC3.58 1.5Vp - p (H) NTSC4.43 1.5Vp - p (H) S (Y/C) 1.5Vp - p (H)	RGB 1.4Vp - p (H)
<b>29</b>	®√—√—	3)	-	32
PAL 1Vp - p (H) SECAM 1Vp - p (H)	PAL 1Vp-p(H) SECAM 1Vp-p(H)	+ 53 + 33 +	Holizon Holizon	- Amayandra
NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	NTSC3.58   Vp - p (H) NTSC4.43   Vp - p (H) S (Y/C)   Vp - p (H)	PAL 0.36Vp - p (H)	NTSC3.58 0.3Vp - p (H) NTSC4.43 0.3Vp - p (H) S (Y/C) 0.32Vp - p (H)	PAL 0.2Vp - p (H)
32	33	tanana araba a	A A A A	34
****	The same of the same of the same		₩	
SECAM IVp-p(H)	PAL 0.7Vp-p (H)	SECAM 1.1Vp - p (H)	NTSC3.58 1.0Vp - p (H) (3.58MH ₂ ) NTSC4.43 0.6Vp - p (H) (4.43MH ₂ ) S (Y/C) 1.0Vp - p (H) (3.58MH ₂ )	PAL 1.2Vp-p (H)
34	35		36	
عل عل	<u> </u>	᠂ᡅᠰᢧᡙ	+	
NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.5Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 0.6Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.4Vp - p (H)	SECAM 0.1Vp-p(H)
<b>36</b>	37)			
	+		100 300 100 100 100	
NISC3.58 0.3Vp - p (H) NISC4.43 0.45Vp - p (H) S (Y/C) 0.35Vp - p (H)	PAL 0.55Vp - p (H)	SECAM 0.1Vp-p (H)	NTSC3.58 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	PAL 0.4Vp - p (H) SECAM 1Vp - p (H) RGB 0.4Vp - p (H) COMPONENT 0.4Vp - p (H)
38	39	40	41)	42
			1	
NTSC3.58 0.4Vp - p (H) NTSC4.43 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	12Vp - p (H)	PAL 11Vp-p (H)	У У РАL 1.8Vp − p (H)	PAL 8.5Ve - 9 (1) SCCAM 11Ve - 9 (1) NTSCLSS 11Ve - 9 (1) NTSCAS 11Ve - 9 (1) NTSCAS 11Ve - 9 (1) RGG 8.5Ve - 9 (1) COMPONENT 8.5Ve - 9 (1)
43	141			(44)
- Hunty		4	~~~~~~	<del>√₩, √₩,</del>
PAL 0.35Vp-p(H)	SECAM 0.35Vp - p (H)	NTSC3.58 0.35Vp - p (H) NTSC4.43 0.32Vp - p (H) S (Y/C) 0.35Vp - p (H)	COMPONENT 0.28Vp - p (H)	PAL 0.45Vp - p (H)
44			<b>4</b> 5	
-100m-100m	<u> «Ֆոդ «Ֆոդ</u>	⁻ ՄՄՄՄՄՄ		A.A.
SECAM 0.45Vp - p (H)	NTSC3.58 0.45Vp - p (H) NTSC4.43 0.4Vp - p (H)	S (Y/C) 0.33Vp - p (H) COMPONENT 0.36Vp - p (H)	PAL 0.5Vp - p (H) SECAM 0.5Vp - p (H) COMPONENT 0.6Vp - p (H)	NTSC3.58 0.8Vp - p (H) NTSC4.43 0.8Vp - p (H) S (Y/C) 0.6Vp - p (H)

46				
<del>-  1111 -  111 111-</del>		<del></del>	<del>11111-1-1   1111-</del>	<del></del>
PAL 0.36Vp - p (H)	SECAM 0.35Vp - p (H)	NTSC3.58 0.8Vp - p (H)	NTSC4.43 0.6Vp - p (H)	S (Y/C) 0.8Vp-p (H)
46 	49 		49	[ <del>5</del>
COMPONENT 0.3Vp - p (H)	4.6Vp - p (V)	10.4Vp - p (V)	3.5Vp - p (V)	3.5Vp - p (H)
-lwr/hw (a)	որումուրու	र क्रियंप क्रियंत	lww/lww	ւխտոխտ
PAL 2.6Vp - p (H)	SECAM 3Vp-p(H)	NTSC3.58 3.2Vp - p (H) NTSC4.43 3.2Vp - p (H) S (Y/C) 3.2Vp - p (H)	COMPONENT 3Vp - p (H)	RGB 2.7Vp-p (H)
€2 , <u> </u> , <u></u>	ساسساس	<u> </u>	Heliand - Heliands	سارساند
PAL 2.6Vp - p (H)	SECAM 2.6Vp - p (H)	NTSC3.58 3.4Vp - p (H) NTSC4.43 3.4Vp - p (H) S (Y/C) 3.4Vp - p (H)	RGB 2.7Vp - p (H)	COMPONENT 3Vp - p (H)
<u> </u>	المحالمة	WIE6328 31/0-0 (H)	THE THE	الممايت
PAL 2.5Vp - p (H)	SECAM 2.6Vp - p (H)	NTSC4.43 3.1Vp - p (H) S (Y/C) 3.1Vp - p (H)	RGB 2.6Vp - p (H)	COMPONENT 2.8Vp - p (H)
PAL 0.6Vp - p (V) SECAM 0.6Vp - p (V)	NTSC3.58 0.9Vp - p (V)			<u> </u>
RGB 0.6Vp - p (V) COMPONENT 0.6Vp - p (V)	NTSC4.43 1Vp - p (H) S (Y/C) 0.7Vp - p (V)	11Vp-p(H)	10Vp - p (H)	2.4Vp - p (H)
√w√w ®	տվիստվո	भीत भीति ।	תוו לתונות לנו	بالسراسس
PAL 72Vp - p (H)	SECAM 80Vp-p (H)	NTSC3.58 $86Vp - p$ (H) NTSC4.43 $90Vp - p$ (H) S (Y/C) $86Vp - p$ (H)	RGB 70Vp−p(H)	COMPONENT BOVP - p (H)
<u></u>	~~~~~	يكرك		<u></u>
PAL 76Vp - p (H)	SECAM 72Vp - p (H) NTSC3.58 72Vp - p (H)	NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H)	RGB 70Vp - p (H)	COMPONENT BOVP - p (H)
√√√√ ⊚	Maha			~~
PAL 66Vp-p (H)	SECAM 64Vp - p (H)	NTSC3.58 80Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 80Vp - p (H)	RGB 70Vp - p (H)	COMPONENT 80Vp - p (H)

NOTE:

The compone The compone shading and r cal for safety Replace only specified.

REF.NO. PART

*A-11

BPF101 1-23 BPF102 1-23

C101 1-12 C102 1-16 C103 1-12 C104 1-16 C105 1-16 C106 C107 C108 C109 C110 1-16 1-16 1-16 1-12 1-16 C111 C112 C113 C114 C115

C116 C117 C118 C119 C120

C121 C122 C123 C124 C125

C126 C127 C128 C129 C130 1-16 1-12 1-12 1-16 1-16

C131 C132 C133 C134 C135

C137 1-16 C138 1-12 C139 1-16 C140 1-16 C141 1-16

C142 1−1€

4...

PAL 0.36Vp - p (H)

COMPONENT 0.3Vp - p (H)

"how"how

PAL 2.6Vp - p (H)

PAL 2.6Vp - p (H)

المحاصة

PAL 2.5Vp - p (H)

PAL 0.6Vp - p (V)
SECAM 0.6Vp - p (V)
RGB 0.6Vp - p (V)
COMPONENT 0.6Vp - p (V)

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PAL 72Vp - p (H)

PAL 76Vp - p (H)

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PAL 66Vp - p (H)

SECAM 0.35Vp - p (H)

4.6Vp - p (V)

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SECAM 3Vp-p (H)

SECAM 2.6Vp - p (H)

التحتالتمد

SECAM 2.6Vp - p (H)

NTSC3.58 0.9Vp - p (V) NTSC4.43 1Vp - p (H) S (Y/C) 0.7Vp - p (V)

Moundar

SECAM 80Vp - p (H)

SECAM 72Vp-p (H) NTSC3.58 72Vp-p (H)

SECAM 64Vp-p (H)

47)

NTSC3.58 0.8Vp - p (H)

10.4Vp - p (V)

र भागप भाग

NTSC3.58 3.2Vp - p (H) NTSC4.43 3.2Vp - p (H) S (Y/C) 3.2Vp - p (H)

NTSC3.58 3.4Vp - p (H) NTSC4.43 3.4Vp - p (H) S (Y/C) 3.4Vp - p (H)

المنيم لمنيه

NTSC3.58 3.1Vp - p (H) NTSC4.43 3.1Vp - p (H) S (Y/C) 3.1Vp - p (H)

11Vp-p (H)

मग्रेष भगव ।

NTSC3.58 86Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H)

(55)

48

NTSC4.43 0.6Vp - p (H)

3.5Vp - p (V)

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COMPONENT 3Vp - p (H)

RGB 2.7Vp - p (H)

RGB 2.6Vp - p (H)

10Vp-p (H)

RGB 70Vp - p (H)

<del>M.M.</del>

RGB 70Vp - p (H)

harbard

RGB 70Vp-p (H)

**5**6

49

S (Y/C) 0.8Vp-p (H)

3.5Vp - p (H)

LMMMM

RGB 2.7Vp - p (H)

COMPONENT 3Vp - p (H)

COMPONENT 2.8Vp - p (H)

2.4Vp - p (H)

JWWJWM

COMPONENT 80Vp - p (H)

COMPONENT 80Vp - p (H)

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COMPONENT 80Vp - p (H)

(57)

60)

46)

46)

(51)

(52)

(53)

(54)

(58)

69

60)

SECTION 2 ELECTRICAL PARTS LIST

В

NOTE:

The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
• All resistors are in ohms
• F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS COILS
MF: μF, PF: μμF • MMH: inH, UH: μH

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

| | | | | • | | | | | | |
|--------------------------------------|---|---|---|------------------------------------|------------------------------|--|--|---------------------------------|-------------------------|------------------------------|
| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
| | | B BOARD, COMPLET | | | | 1-163-121-00
1-163-101-00
1-163-131-00
1-126-157-11 | | | 5%
5%
5%
20% | 50V
50V
50V
16V |
| | <fil< td=""><td>TER></td><td></td><td></td><td>C1.47</td><td></td><td></td><td></td><td></td><td>50Y</td></fil<> | TER> | | | C1.47 | | | | | 50Y |
| BPF101
BPF102 | 1-236-363-11
1-236-364-11 | TER> FILTER, BAND PAS FILTER, BAND PAS | S
S | | C148
C149
C150
C151 | 1-164-232-11
1-126-160-11
1-163-022-00
1-124-589-11
1-163-131-00 | ELECT
CERAMIC CHIP
ELECT
CERAMIC CHIP | 1MF
0.012MF
47MF
390PF | 20%
10%
20%
5% | 50V
50V
16V
50V |
| | <cap< td=""><td>ACITOR></td><td></td><td></td><td>C152</td><td>1-163-101-00</td><td>CERAMIC CHIP</td><td>22PF</td><td>5%</td><td>50V</td></cap<> | ACITOR> | | | C152 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V |
| C101
C102
C103
C104
C105 | 1-124-589-11
1-163-031-11
1-126-157-11
1-163-031-11 | ACITOR> ELECT 47M CERAMIC CHIP 0.0 ELECT 10M CERAMIC CHIP 0.0 CERAMIC CHIP 0.0 | F 20%
1MF
F 20%
1MF | 16V
50V
16V
50V
50V | C153
C154
C155
C156 | 1-163-131-00
1-163-125-00
1-163-031-11
1-163-133-00
1-164-299-11 | | | | 50V
50V
50V
25V |
| C10C | 1 104 477 11 | ELECT 47W | E 20% | | C157 | 1-163-229-11 | CERAMIC CHIP | 12PF | 5% | 50V
16V |
| C106
C107
C108
C109
C110 | 1-124-477-11
1-163-031-11
1-124-477-11
1-124-477-11 | ELECT 47M CERAMIC CHIP 0.0 ELECT 47M ELECT 47M ELECT 220 | F 20%
F 20%
F 20%
MF 20% | 16V
50V
16V
16V
16V | C158
C159
C160
C161 | 1-163-229-11
1-124-477-11
1-163-229-11
1-163-229-11
1-124-902-00 | ELECI | U.4/MF | 5%
5%
20% | 50V
50V
50V |
| | | | | | C162 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C111
C112
C113
C114
C115 | 1-163-031-11
1-163-031-11
1-163-031-11
1-124-477-11 | CERAMIC CHIP 0.0
CERAMIC CHIP 0.0
CERAMIC CHIP 0.0
ELECT 47M
CERAMIC CHIP 0.0 | 1MF
1MF
1MF
F 20% | 50V
50V
50V
16V
50V | C163
C164
C165
C166 | 1-163-809-11
1-163-809-11
1-163-009-11
1-163-031-11 | CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP | 0.047MF
0.001MF
0.01MF | 10%
10%
10% | 25V
25V
50V
50V |
| | 1 103 031 11 | ELECT 474 | E 20% | | C167 | 1-124-477-11
1-163-031-11 | ELECT | 47MF | 20% | 16V
50V |
| C116
C117
C118
C119
C120 | 1-124-589-11
1-126-154-11
1-126-154-11
1-163-031-11
1-126-154-11 | ELECT 47M ELECT 47M ELECT 47M CERAMIC CHIP 0.0 ELECT 47M | F 20%
F 20%
F 20%
1MF
F 20% | 16V
6.3V
6.3V
50V
6.3V | C168
C169
C170
C171 | 1-163-243-11
1-163-129-00
1-163-243-11 | CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP | 47PF
330PF
47PF | 5%
5%
5% | 50V
50V
50V |
| C121 | 1-126-154-11 | ELECT ATM | F 20% | | C172
C173 | 1-163-129-00
1-124-589-11
1-124-477-11 | CERAMIC CHIP | 330PF
47MF | 5%
20% | 50V
16V |
| C122
C123
C124
C125 | 1-124-477-11
1-163-031-11 | ELECT 47M CERAMIC CHIP 0.0 CERAMIC CHIP 0.0 ELECT 47M | 1MF | 16V
50V
50V
6.3V | C174
C175
C176 | 1-108-792-11 | CERAMIC CHIP | 0.001MF | 5% | 16V
50V
50V |
| C126 | | CEDAMIC CHIP O O | 1 M F | 50V | C177
C178 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V
50V |
| C127
C128
C129
C130 | 1-126-154-11
1-126-154-11
1-163-031-11
1-163-031-11 | CERAMIC CHIP 0.0 ELECT 47M ELECT 47M CERAMIC CHIP 0.0 CERAMIC CHIP 0.0 | F 20%
F 20%
1MF
1MF | 6.3V
6.3V
50V
50V | | 1-163-031-11
1-163-031-11
1-126-160-11
1-163-031-11
1-126-154-11 | | | | 50V
50V
6.3V |
| C131 | | CERAMIC CHIP 0.0 | 1 M C | 50V | C182 | 1-126-163-11
1-164-232-11 | ELECT | 4.7MF
0.01MF
0.01MF | 20% | 16V
50V |
| C132 | 1-124-589-11
1-124-589-11
1-163-275-11
1-163-113-00 | ELECT 47M | F 20%
F 20%
O1MF 5% | 16V
16V
50V
50V | C184
C185
C186 | 1-163-031-11
1-163-031-11
1-163-099-00 | CERAMIC CHIP | 0.01MF | 5% | 50 V
50 V
50 V |
| | | CERAMIC CHIP 82P | | | C187 | 1-163-031-11
1-163-031-11 | CERAMIC CHIP
CERAMIC CHIP | 0.01MF | | 50V
50V |
| C137
C138
C139
C140 | 1-163-115-00
1-124-589-11
1-163-031-11
1-163-205-00 | ELECT 47M
CERAMIC CHIP 0.0
CERAMIC CHIP 0.0 | F 20%
1MF
01MF 5% | 50V
16V
50V
50V | C188
C189
C190
C191 | 1-163-031-11
1-163-035-00
1-163-121-00
1-163-031-11 | CERAMIC CHIP
CERAMIC CHIP | 0.047MF
150PF | 5% | 50 V
50 V
50 V
50 V |
| C141
C142 | 1-163-141-00 | CERAMIC CHIP 0.0
CERAMIC CHIP 0.0 | | 50¥
50¥ | C192
C193 | 1-163-031-11
1-124-589-11 | CERAMIC CHIP | 0.01MF
47MF | 20% | 50V
16V |
| C142 | 1-102-021-11 | CERMIC CHIP U.U | Tru | 704 | 1 (17) | 1 124-307-11 | ELECT | TIME | 20% | 101 |

-30-

NTSC3.58 80Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 80Vp - p (H)



| 3 | | | | | | | | | | | | | | | | | | В | В | |
|----------------------------------|---|--|--|---|--|--|--|--|---|--|--|---|-----------|--|--|---|---|--------|--|---|
| | | PART NO. | DESCRIPTION | | REMARK | | PART NO. | DESCRIPTION | | REMARK | REF.NO. PART NO. | DESCRIPTION | REMARK RI | | PART_NO. | DESCRIPTION | | REMARK | | D. PART |
| C1
C1
C1
C1 | 195
196
197
198 | 1-124-589-11
1-124-589-11
1-124-589-11
1-124-589-11 | ELECT 47MF | 20%
20%
20%
20%
20%
20% | 16V
16V
16V
16V
16V
16V | C262
C264
C265
C266 | 1-163-129-00 | ELECT 0.47MF CERAMIC CHIP 180PF CERAMIC CHIP 330PF ELECT 10MF | 5%
20%
5%
5%
20%
20% | 50V
50V
50V
50V
16V
16V | <pre><con *1-564-506-11<="" 1-506-480-11="" cn101="" cn102="" pre=""></con></pre> | PLUG, CONNECTOR 3P | | D152
D153
D154
D155
D156 | 8-719-404-46
8-719-404-46
8-719-977-20
8-719-404-46
8-719-404-46
8-719-404-8-719-901-83 | DIODE MA110 DIODE DTZ8.2B DIODE MA110 DIODE MA110 DIODE MA110 | | | 10127 | 5 8-759
6 8-759
7 8-759
8-759
8-759 |
| C2
C2
C2
C2
C2
C2 | 203
204
205
206
207
208
209 | 1-124-589-11
1-124-589-11
1-163-101-00
1-164-298-11
1-164-298-11
1-163-101-00
1-164-004-11 | ELECT 47MF ELECT 47MF CERAMIC CHIP 22PF CERAMIC CHIP 0.15MF CERAMIC CHIP 0.15MF CERAMIC CHIP 22PF CERAMIC CHIP 2.1MF | 20%
20%
5%
10%
10%
5% | 16V
16V
50V
25V
25V
50V
25V | C268
C269
C270
C271
C272 | 1-164-004-11
1-163-809-11
1-163-129-00
1-163-129-00
1-124-477-11 | CERAMIC CHIP 0.1MF
CERAMIC CHIP 0.1MF
CERAMIC CHIP 0.047MF
CERAMIC CHIP 330PF | 20%
10%
10%
10%
5%
5% | 16V
25V
25V
25V
50V
50V
50V
50V | CN103 *1-565-503-11
CN104 1-506-477-11
CN105 *1-564-509-11
CN106 1-506-473-11
CN107 1-506-478-11
CN108 *1-564-506-11 | PIN, CONNECTOR 8P
PIN, CONNECTOR 13P | 1 | D159
D160
D161
D162
D170 | 8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46 | DIODE 1SS83
DIODE MA110
DIODE MA110
DIODE MA110 | | | JR105
JR110
JR133
JR138
JR178 | 5 1-216
0 1-216
3 1-216
8 1-216
8 1-216 |
| C2
C2
C2
C2
C2 | 210
211
212
213
214
215 | 1-124-589-11
1-124-589-11
1-124-589-11
1-126-157-11
1-126-157-11
1-126-157-11 | ELECT 47MF ELECT 47MF ELECT 47MF ELECT 10MF ELECT 10MF ELECT 10MF | 20%
20%
20%
20%
20%
20%
20% | 16V
16V
16V
16V
16V
16V | C275
C277
C278
C279
C280
C281
C282
C283 | 1-163-097-00
1-163-809-11
1-126-157-11
1-163-117-00
1-163-031-11
1-163-031-11 | CERAMIC CHIP 15PF
CERAMIC CHIP 0.047MF | 5%
5%
10%
20%
5% | 50V
50V
25V
16V
50V
50V
50V | CTR101 1-236-366-11
CTR102 1-236-365-11 | MMER> | | D186
D187
D188
D191
D285
D289
D341 | 8-719-400-18
8-719-800-76
8-719-800-76
8-719-104-34
8-719-404-46
8-719-404-46 | DIODE MA152WK
DIODE 1SS226
DIODE 1SS226
DIODE 1SS226
DIODE MA110
DIODE MA110 | | | L101
L102
L103
L104
L105
L106 | 1-410
1-412
1-412
1-412
1-410 |
| C2
C2
C2
C2
C2
C2 | 217
218
219
220
221
222
223
225
226 | 1-163-031-11 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.15MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 10PF CERAMIC CHIP 0.01MF ELECT 47MF CERAMIC CHIP 0.01MF | 10%
10%
20%
5%
20% | 50V
25V
50V
50V
50V
50V
50V
16V
50V | C299
C300
C301
C302
C303
C304
C305
C306 | 1-126-157-11
1-163-809-11
1-124-589-11
1-126-157-11
1-163-125-00
1-124-257-00 | CERAMIC CHIP 0.01MF ELECT 10MF CERAMIC CHIP 0.047MF ELECT 47MF ELECT 10MF CERAMIC CHIP 220PF ELECT 2.2MF CERAMIC CHIP 82PF | 20%
10%
20%
20%
5%
20% | 50V
16V
25V
16V
16V
50V
50V | CV102 1-141-418-11 <dio 8-719-404-46="" 8-719-404-46<="" dio3="" dio4="" dio5="" dio6="" td=""><td>CAP, ADJ DE> DIODE MA110 DIODE MA110 DIODE MA110</td><td></td><td>D343
D344
D345
D346
D347</td><td>8-719-800-76
8-719-105-XX
8-719-901-83
8-719-901-83
8-719-901-83</td><td>DIODE 1SS226
DIODE RD6.2M-B1
DIODE 1SS83
DIODE 1SS83</td><td>*</td><td></td><td>L112
L113
L114
L115
L116
L117
L118
L250</td><td>1-408
1-410
1-410
1-410
1-412
1-412</td></dio> | CAP, ADJ DE> DIODE MA110 DIODE MA110 DIODE MA110 | | D343
D344
D345
D346
D347 | 8-719-800-76
8-719-105-XX
8-719-901-83
8-719-901-83
8-719-901-83 | DIODE 1SS226
DIODE RD6.2M-B1
DIODE 1SS83
DIODE 1SS83 | * | | L112
L113
L114
L115
L116
L117
L118
L250 | 1-408
1-410
1-410
1-410
1-412
1-412 |
| C2
C2
C2
C2
C2 | 227
228
229
230
231 | 1-163-038-00
1-163-986-00
1-163-031-11
1-163-038-00
1-163-986-00
1-163-031-11 | CERAMIC CHIP 0.1MF
CERAMIC CHIP 0.027MF
CERAMIC CHIP 0.01MF
CERAMIC CHIP 0.1MF
CERAMIC CHIP 0.027MF | 10% | 25 V
25 V
50 V
25 V
25 V
50 V
50 V | C307
C308
C309
C310
C312
C313
C314 | 1-163-145-00
1-164-004-11
1-164-004-11
1-163-031-11
1-163-115-00 | CERAMIC CHIP 0.0015M
CERAMIC CHIP 0.1MF
CERAMIC CHIP 0.1MF
CERAMIC CHIP 0.1MF | 5 5%
10%
10%
10%
5%
20% | 50 V
25 V
25 V
25 V
50 V
50 V
16 V | D107 8-719-404-46 D108 8-719-404-46 D109 8-719-404-46 D110 8-719-404-46 D111 8-719-404-46 D112 8-719-404-46 D113 8-719-404-46 | DIODE MA110 | | D350
D390
D393 | 8-719-800-76
8-719-800-76
8-719-404-46
<dei< td=""><td>DIODE 1SS226
DIODE 1SS226</td><td></td><td></td><td>L251
L252
L300</td><td>1-41(
1-41(
1-41(
8-72(</td></dei<> | DIODE 1SS226
DIODE 1SS226 | | | L251
L252
L300 | 1-41(
1-41(
1-41(
8-72(|
| | 233
234
235
236
237
238
239
240 | 1-163-031-11
1-163-031-11
1-164-299-11
1-163-809-11 | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.027MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.247MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF | 10%
10%
10%
10% | 25 V
25 V
25 V
50 V
25 V
25 V
25 V
25 V | C315
C316
C317
C318
C319
C320
C321
C322 | 1-126-157-11
1-163-031-11
1-163-095-00
1-163-095-00 | CERAMIC CHIP 0.22MF ELECT 10MF CERAMIC CHIP 0.01MF CERAMIC CHIP 12PF CERAMIC CHIP 12PF CERAMIC CHIP 12PF CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 120PF | 10%
20%
5%
5%
5%
5% | 25V
16V
50V
50V
50V
50V
50V
50V | D117 8-719-404-46
D120 8-719-404-46
D121 8-719-404-46
D122 8-719-404-46
D123 8-719-404-46
D125 8-719-404-46
D126 8-719-404-46
D127 8-719-404-46 | DIODE MA110 | | I C 1 O 1 | 8-759-048-09
8-759-501-21
8-759-501-21
8-759-501-21
8-759-048-09 | >
 TC MM1148XF | | | Q102
Q103
Q104
Q105
Q106
Q107
Q108
Q109 | 8-72!
8-72!
8-72!
8-72!
8-72!
8-72!
8-72! |
| C;
C;
C; | 241
242
243
244
245
246 | 1-163-113-00
1-163-031-11
1-163-103-00
1-163-105-00
1-163-809-11 | CERAMIC CHIP 0.047MF CERAMIC CHIP 68PF CERAMIC CHIP 0.01MF CERAMIC CHIP 27PF CERAMIC CHIP 33PF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF | 5%
5%
10% | 50V
50V
50V
50V
25V | C344
C345
C346
C347
C1293 | 1-163-205-00
1-163-092-00
1-163-109-00
1-163-109-00
1-163-109-00 | CERAMIC CHIP 120PF CERAMIC CHIP 0.001MF CERAMIC CHIP 9PF CERAMIC CHIP 47PF CERAMIC CHIP 47PF CERAMIC CHIP 47PF CERAMIC CHIP 47PF CERAMIC CHIP 120PF | 5%
5%
0.25
5%
5% | 50V
50V | D128 8-719-400-18 D129 8-719-404-46 D130 8-719-800-76 D131 8-719-800-76 D132 8-719-800-76 D133 8-719-404-46 | DIODE MA152WK DIODE MA110 DIODE 1SS226 DIODE 1SS226 DIODE 1SS226 DIODE MA110 | | IC106
IC107
IC108
IC109
IC110 | 8-759-009-51
8-759-509-57
8-759-509-17
8-759-509-17
8-759-509-17 | IC MC14538BF
IC XRU4584BF
IC XRU4053BF
IC XRU4070BF
IC XRU4053BF | | | Q112
Q113
Q114
Q115
Q116
Q117 | 8-729
8-729
8-729
8-729
8-729 |
| C
C
C
C
C | 248
249
250
251
252
253
254 | 1-163-809-11
1-126-101-11
1-163-017-00
1-110-364-11
1-123-935-00
1-124-477-11
1-163-031-11 | CERAMIC CHIP 0.047MF ELECT 100MF CERAMIC CHIP 0.0047MF MYLAR 0.1MF ELECT 33MF ELECT 47MF CERAMIC CHIP 0.01MF | 10%
10%
20%
10%
10%
20% | 25V
25V
16V
50V
200V
160V
16V
50V | C1294
C1295
C1296
C1297
C1298
C1299 | 1-163-119-00
1-163-119-00
1-163-115-00
1-163-103-00
1-163-113-00 | CERAMIC CHIP 120PF CERAMIC CHIP 120PF CERAMIC CHIP 82PF CERAMIC CHIP 27PF CERAMIC CHIP 68PF CERAMIC CHIP 10PF | 5%
5%
5%
5%
5%
5%
20% | 50 V
50 V
50 V
50 V
50 V | D134 8-719-404-46 D135 8-719-404-46 D136 8-719-404-46 D137 8-719-404-46 D138 8-719-404-46 D139 8-719-404-46 D144 8-719-404-46 D145 8-719-404-46 | DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 | | I C113
I C114
I C115
I C116
I C117 | 8-759-509-05
8-759-711-32 | IC M51279FP IC XRU4052BF IC XRU4052BF | | | Q118
Q119
Q121
Q122
Q123
Q124
Q125 | 8-729
8-729
8-729
8-729
8-729 |
| C
C
C | 255
256
257
258
259
260 | 1-124-477-11
1-163-129-00
1-163-129-00
1-163-129-00 | CERAMIC CHIP 330PF CERAMIC CHIP 330PF CERAMIC CHIP 330PF CERAMIC CHIP 330PF CERAMIC CHIP 0.01MF | 20%
5%
5%
5%
20% | 16V
50V
50V
50V
50V
50V | C1302 | 1-126-160-11
1-126-160-11
1-126-160-11 | ELECT 1MF
ELECT 1MF | 20%
20%
20%
20% | 50V
50V
50V
50V | D146 8-719-404-46
D147 8-719-404-46
D148 8-719-404-46
D149 8-719-404-46
D150 8-719-404-46 | DIODE MA110
DIODE MA110
DIODE MA110
DIODE MA110 | | I C121
I C122
I C123 | | IC XRU4053BF
IC LM358D
IC LM358D | | | Q125
Q126
Q127
Q128
Q129
Q130 | 8-729 |

В



| | | | | | | L | | J | | | | | | | | |
|-------------------|--|---|---|---|--|---|--------|--------------------------------------|--|--|---|--|--------------------------------------|--|---|--------|
| EMARK | REF.NO. PART NO. | | REMARK REF.NO. | | DESCRIPTION | | REMARK | | PART NO. | DESCRIPTION | | REMAR | K REF.NO. | PART NO. | DESCRIPTION | REMARK |
| V | CFM101 1-464-880-11 | FILTER BLOCK, COM (CFB-2) | D151
D152 | 8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110 | * | | IC125
IC126 | 8-759-509-05
8-759-509-17
8-759-998-98 | IC XRU4066BF
IC XRU4053BF
IC LM358D | | | Q131
Q132 | 8-729-422-27
8-729-216-22 | TRANSISTOR 2SD601A-Q
TRANSISTOR 2SA1162-G | |
| Y
V
V | CN101 1-506-480-11
CN102 *1-564-506-11 | PLUG. CONNECTOR 3P | D154
D155
D156 | 8-719-977-20
8-719-404-46
8-719-404-46
8-719-404-46
8-719-901-83 | DIODE MA110
DIODE MA110 | | | 10128 | 8-759-998-98
8-759-998-98 | 1 C LM358D | | | ! 0134 | 8-729-901-01 | TRANSISTOR 2SD601A-Q TRANSISTOR DTC144EK TRANSISTOR 2SD601A-Q TRANSISTOR IMX1 TRANSISTOR IMX1 | |
| v
V
V
V | CN104 1-506-477-11
CN105 *1-564-509-11
CN106 1-506-473-11
CN107 1-506-478-11
CN108 *1-564-506-11 | PIN, CONNECTOR 8P
PIN. CONNECTOR 13P | D159
D160
D161 | 8-719-901-83
8-719-901-83
8-719-404-46
8-719-404-46
8-719-404-46 | DIODE 1SS83 DIODE MA110 DIODE MA110 | | | JR133 | 1-216-295-00 | METAL GLAZE (| 1 5% | 1/10W
1/10W
1/10W
1/10W
1/10W
1/10W | Q138
Q139
Q140
Q141
Q142 | 8-729-216-22
8-729-422-27 | TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q | |
| v
v
v | | AP MODULE> MODULE, TRAP | D170
D185
D186
D187
D188 | 8-719-404-46
8-719-104-34
8-719-400-18
8-719-800-76
8-719-800-76 | DIODE 1S2836
DIODE MA152WK
DIODE 1SS226 | | | L102 | <01
1-410-470-11
1-410-090-41
1-412-002-31 | INDUCTOR | 10UH
18MMH
4.7UH | | Q143
Q144
Q145
Q146
Q147 | 8-729-422-27 | TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SC2551-0 TRANSISTOR 2SC2551-0 | |
| v
v
v | | MMER> | D191
D285
D289
D341
D342 | 8-719-104-34
8-719-404-46
8-719-404-46
8-719-404-46
8-719-104-34 | DIODE MA110
DIODE MA110
DIODE MA110 | | | L104
L105
L106
L107
L112 | 1-412-002-31
1-412-002-31
1-410-470-11
1-410-470-11
1-408-419-00 | INDUCTOR CHIP INDUCTOR CHIP INDUCTOR INDUCTOR INDUCTOR INDUCTOR | 4.7UH
4.7UH
10UH
10UH
68UH | | Q148
Q149
Q150
Q151
Q152 | 8-729-200-17
8-729-422-27
8-729-216-22 | TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0 TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0 | |
| v
v
v | D103 8-719-404-46 D104 8-719-404-46 | DDE> | ! D345 | 8-719-800-76
8-719-105-XX
8-719-901-83
8-719-901-83
8-719-901-83 | DIODE RD6.2M-B1
DIODE 15583 | | | L113
L114
L115
L116 | 1-410-947-31
1-410-947-31
1-410-947-31
1-412-011-31 | INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP | 33UH
33UH
33UH
27UH | | Q153
Q154
Q155
Q157
Q158 | 8-729-216-22
8-729-200-17
8-729-326-11 | TRANSISTOR 2SD601A-Q
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1091-0
TRANSISTOR 2SC2611
TRANSISTOR 2SC2611 | |
| V
V
V
V | D105 8-719-404-46
D106 8-719-404-46
D107 8-719-404-46
D108 8-719-404-46
D109 8-719-404-46 | DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 | D349
D350
D390 | 8-719-800-76
8-719-800-76
8-719-800-76
8-719-800-76
8-719-404-46 | DIODE 1SS226
DIODE 1SS226
DIODE 1SS226 | · | | L118
L250
L251
L252 | 1-412-011-31
1-410-997-31 | INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR | 27UH
2.2UH | | Q159
Q160
Q161
Q164
Q165 | 8-729-422-27
8-729-216-22
8-729-901-01 | TRANSISTOR 2SC2611 TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G | |
| Ϋ.
V
V
V | D110 8-719-404-46
D111 8-719-404-46
D112 8-719-404-46
D113 8-719-404-46
D117 8-719-404-46 | DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 | DL101
DL102 | 1-415-632-11 | AY LINE>
DELAY LINE, Y
DELAY LINE, Y | | | `Q101
Q102 | <tr#
8-729-422-27
8-729-422-27</tr#
 | ANSISTOR> TRANSISTOR 2SD6 TRANSISTOR 2SD6 | 601A-Q
601A-Q | | Q166
Q167
Q168
Q170
Q171 | 8-729-216-22
8-729-216-22
8-729-422-27 | TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q | |
| V
V
V | D120 8-719-404-46
D121 8-719-404-46
D122 8-719-404-46
D123 8-719-404-46
D125 8-719-404-46 | DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 | 10102 | <1C> 8-759-048-09 8-759-501-21 8-759-501-21 | IC MM1148XF
IC MM1149XF | | | Q103
Q104
Q105
Q106 | 8-729-422-27
8-729-422-27
8-729-422-27
8-729-422-27 | TRANSISTOR 2SDE
TRANSISTOR 2SDE
TRANSISTOR 2SDE
TRANSISTOR 2SDE
TRANSISTOR 2SDE | 601A-Q
601A-Q
601A-Q
601A-Q | | Q173
Q174
Q175
Q176 | 8-729-216-22
8-729-216-22
8-729-216-22
8-729-216-22 | TRANSISTOR 2SD601A-Q
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G | |
| V
V
V | D126 8-719-404-46
D127 8-719-404-46
D128 8-719-400-18
D129 8-719-404-46 | DIODE MA110
DIODE MA110
DIODE MA152WK | IC104
IC105
IC106
IC107 | 8-759-501-21
8-759-048-09
8-759-009-51
8-759-509-57
8-759-509-17 | IC MM1149XF
IC MM1148XF
IC MC14538BF
IC XRU4584BF | | | Q108
Q109
Q112
Q113
Q114 | 8-729-216-22
8-729-901-01
8-729-422-27
8-729-422-27
8-729-216-22 | TRANSISTOR 2SA: TRANSISTOR DTC: TRANSISTOR 2SD6 TRANSISTOR 2SD6 TRANSISTOR 2SA | 1162-G
144EK
601A-Q
601A-Q
1162-G | | Q178
Q179
Q189
Q190 | 8-729-422-27
8-729-901-01
8-729-907-26
8-729-216-22 | TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR DTC144EK TRANSISTOR IMX1 TRANSISTOR 2SA1162-G | |
| V
V
V | D131 8-719-800-76
D132 8-719-800-76
D133 8-719-404-46
D134 8-719-404-46
D135 8-719-404-46 | DIODE 1SS226
DIODE 1SS226
DIODE MA110
DIODE MA110 | IC109
 IC110
 IC111
 IC112
 IC113 | 8-759-509-37
8-759-509-17
8-759-509-17
8-759-924-12
8-759-631-08 | IC XRU4070BF
IC XRU4053BF
IC XRU4053BF
IC LM7805CT
IC M51279FP | | | Q115
Q116
Q117 | 8-729-422-27
8-729-422-27
8-729-216-22
8-729-422-27 | TRANSISTOR 2SDE
TRANSISTOR 2SDE
TRANSISTOR 2SAE
TRANSISTOR 2SDE
TRANSISTOR 2SDE
TRANSISTOR 2SAE | 501A-Q
501A-Q
1162-G
501A-0 | | Q192
 Q193
 Q194 | 8-729-422-27
8-729-422-27
8-729-422-27
8-729-216-22 | TRANSISTOR 2SD601A-Q
TRANSISTOR 2SD601A-Q
TRANSISTOR 2SD601A-Q
TRANSISTOR 2SD601A-Q
TRANSISTOR 2SA1162-G | |
| V
V
V
V | D136 8-719-404-46
D137 8-719-404-46
D138 8-719-404-46
D139 8-719-404-46
D144 8-719-404-46 | DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 | IC114
 IC115
 IC116
 IC117
 IC118 | 8-759-509-13
8-759-509-13
8-759-509-05
8-759-711-32
8-759-711-32 | IC XRU4052BF IC XRU4066BF IC NJM2245M IC NJM2245M | 9 | | Q122
Q123
Q124 | 8-729-422-27
8-729-216-22
8-729-422-27
8-729-216-22 | TRANSISTUR 2500 TRANSISTOR 2500 TRANSISTOR 2500 TRANSISTOR 2500 | 501A-U
1162-G
501A-Q
1162-G | | Q198
Q199
Q200 | 8-729-216-22
8-729-216-22
8-729-216-22
8-729-901-06 | TRANSISTOR 2SD601A-Q
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR DTA144EK | |
| V
V
V | D145 8-719-404-46
D146 8-719-404-46
D147 8-719-404-46
D148 8-719-404-46
D149 8-719-404-46 | DIODE MA110
DIODE MA110
DIODE MA110
DIODE MA110 | IC120
IC121
IC122
IC123 | 8-759-711-32
8-759-509-05.
8-759-509-17
8-759-998-98
8-759-998-98 | IC XRU4066BF IC XRU4053BF IC LM358D IC LM358D | | | Q126
Q127
Q128
Q129 | 8-729-901-01
8-729-216-22
8-729-216-22
8-729-901-01 | TRANSISTOR 2SDE
TRANSISTOR DTC
TRANSISTOR 2SA
TRANSISTOR DTC | 144EK
1162-G
1162-G
144EK | | Q202
Q203
Q204
Q205 | 8-729-216-22
8-729-216-22
8-729-216-22
8-729-216-22 | TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G | |
| | D150 8-719-404-46 | DIODE WALLO | 1 10124 | 8-752-052-62 | IC CXA14785 | | | U130 | 8-129-216-22 | TRANSISTOR 2SA | 1102-6 | | ; U 206 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |

В

| Cooperation | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | ŘĚMÁŘK |
|--|--------------------------------------|--|--|---|----------------------------|----------------------------------|--------|--------------------------------------|--|--|----------------------------|-------------------------------|----------------------------------|--------|
| R101 -216-089-00 METAL GLAZE 47K 5X 1/10W R173 -216-099-00 METAL GLAZE 6.8K 5.5 1/10W R174 -216-099-00 METAL GLAZE 6.8K 5.5 1/10W R174 -216-099-00 METAL GLAZE 6.8K 5.5 1/10W R175 -216-099-00 METAL GLAZE 6.8K 5.5 1/10W R176 -216-099-00 METAL GLAZE 6.8K 5.5 1/10W R179 -216-099-00 METAL GLAZE 6.8K 5.5 1/10W R181 -216-099-00 METAL GLA | Q208
Q209
Q210
Q211
Q212 | 8-729-216-22
8-729-255-12
8-729-255-12
8-729-255-12
8-729-109-44 | TRANSISTOR 2SA
TRANSISTOR 2SC
TRANSISTOR 2SC
TRANSISTOR 2SC
TRANSISTOR 2SK | 1162-
2551-
2551-
2551-
2551- | G
D
D | | | R167
R168
R169
R170
R171 | 1-216-103-00
1-216-033-00
1-216-089-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 180K
220
47K | 0.50%
5%
5%
5%
5% | 1/10W
1/10W
1/10W | |
| RIOI | Q299 | 8-729-422-27 | TRANSISTOR 2SD | 601A- | Q | | | R172 | 1-216-043-00 | METAL GLAZE | | | 1/10W | |
| RIO3 -2:16-02:-00 METAL GLAZE 100 52 1/10W RIO3 -2:16-03:-00 METAL GLAZE 5:8 5:2 1/10W RIO3 -2:16-03:-00 METAL GLAZE 5:8 5:2 1/10W RIO3 -2:16-03:-00 METAL GLAZE 5:8 5:2 1/10W RIO3 -2:16-03:-00 METAL GLAZE 2:8 7:10W RIO3 -2:16-03:-00 METAL GLAZE 4:7 5:2 1/10W RIO3 -2:16-03:-00 METAL GLAZE 6:00 5:2 1/10W RIO3 -2:16-03:-00 ME | וחות | | | A7V | 59 | 1 /106 | | R174 | 1-216-069-00
1-216-057-00 | METAL GLAZE
METAL GLAZE | 6.8K
2.2K | 5%
5% | 1/10W
1/10W | |
| R112 1-216-063-00 METAL GLAZE 3.9X 5% 1/10W R136 1-216-013-00 METAL GLAZE 47K 5% 1/10W R115 1-216-043-00 METAL GLAZE 466 5% 1/10W R115 1-216-05-00 METAL GLAZE 10K 5% 1/10W R125 1-216-037-00 METAL GLAZE 27K 5% 1/10W R125 1-216-037-00 METAL GLAZE 10K 5% 1/10W R126 1-216-037-00 METAL GLAZE 10K 5% 1/10W R125 1-216-037-00 METAL GLAZE 10K 5% 1/10W R | R102
R103
R104
R105 | 1-216-025-00
1-216-091-00
1-216-061-00
1-216-025-00 | METAL GLAZE | 100 | 2% | 17 TOW | | R177
R178
R179
R180 | 1-216-073-00
1-216-089-00
1-216-081-00
1-216-679-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL CHIP | 10K
47K
22K
15K | 5%
5%
5%
0.50% | 1/10W
1/10W
1/10W
1/10W | |
| R112 1-216-039-00 METAL GLAZE 10K 5% 1/10W R113 1-219-040-1-1 CARSUN 47K 5% 1/10W R113 1-219-040-1-1 CARSUN 47K 5% 1/10W R113 1-216-045-00 METAL GLAZE 10K 5% 1/10W R115 1-216-045-00 METAL GLAZE 10K 5% 1/10W R115 1-216-045-00 METAL GLAZE 10K 5% 1/10W R115 1-216-030-00 METAL GLAZE 10K 5% 1/10W R125 1-216-030-00 METAL GLAZE 10K 5% 1/10W R126 1-216-030- | R107
R108
R109 | 1-216-025-00
1-216-113-00
1-216-065-00 | | | | 1/10W
1/10W
1/10W | | R182 | 1-216-683-11
1-216-691-11
1-216-699-11 | METAL CHIP
METAL CHIP
METAL CHIP | 22K
47K
100K | 0.50%
0.50%
0.50% | 1/10W
1/10W
1/10W | |
| R119 1-216-647-11 METAL CHIP 680 0.50% 1/10W R129 1-216-103-00 METAL GLAZE 20K 5% 1/10W R120 1-216-625-00 METAL GLAZE 20K 5% 1/10W R121 1-216-025-00 METAL GLAZE 20K 5% 1/10W R129 1-216-039-00 METAL GLAZE 47K 5% 1/10W R129 1-216-039-00 METAL GLAZE 47K 5% 1/10W R129 1-216-039-00 METAL GLAZE 47K 5% 1/10W R129 1-216-039-00 METAL GLAZE 10K 5% 1/10W R129 1-216-039-00 METAL GLAZE 10K 5% 1/10W R120 1-216-039-00 METAL GLAZE 27K 5% 1/10W R120 1-216-050-00 METAL GLAZE 10K 5% 1/10W R120 1-216-050-00 METAL GLAZE 10K 5% 1/10W R120 1-216-050-00 METAL GLAZE 10K 5% 1/10W R120 1-216-050-00 METAL GLAZE 47K 5% 1/10W R120 1-216-050-00 METAL GLAZE 56W 5% 1/10W R130 1-216-050-00 METAL GLAZE 56W 5% 1/10W R130 1-216-050-00 METAL GLAZE 10W 5% 1/10W R130 1-216-050-00 METAL GLAZE 10W 5% 1/10W R131 1-216-089-00 METAL GLAZE 10W 5% 1/10W R131 1-216-089-00 METAL GLAZE 10W 5% 1/10W R131 1-216-089-00 METAL GLAZE 10W 5% 1/10W R131 1-216-060-00 METAL GLAZE 56W 5% 1/10W R131 1-216-060-00 METAL | R112 | 1-216-049-00 | METAL GLAZE
METAL GLAZE
CAPRON | 3.9K
1K | 5%
5% | 1/10W
1/10W | | , 0106 | 1_216_112_00 | METAL GLAZE | 470K | | 1/10W | |
| R119 1-216-647-11 METAL CHIP 680 0.50% 1/10W R129 1-216-103-00 METAL GLAZE 20K 5% 1/10W R129 1-216-025-00 METAL GLAZE 20K 5% 1/10W R129 1-216-039-00 METAL GLAZE 20K 5% 1/10W R129 1-216-039-00 METAL GLAZE 20K 5% 1/10W R129 1-216-039-00 METAL GLAZE 47K 5% 1/10W R129 1-216-039-00 METAL GLAZE 47K 5% 1/10W R129 1-216-039-00 METAL GLAZE 10K 5% 1/10W R129 1-216-039-00 METAL GLAZE 27K 5% 1/10W R129 1-216-050-00 METAL GLAZE 10K 5% 1/10W R129 1-216-050-00 METAL GLAZE 10K 5% 1/10W R129 1-216-050-00 METAL GLAZE 10K 5% 1/10W R129 1-216-050-00 METAL GLAZE 47K 5% 1/10W R129 1-216-050-00 METAL GLAZE 56K 5% 1/10W R130 1-216-039-00 METAL GLAZE 27K 5% 1/10W R130 1-216-039-00 METAL GLAZE 10K 5% 1/10W R130 1-216-039-00 METAL GLAZE 10K 5% 1/10W R131 1-216-089-00 METAL GLAZE 10K 5% 1/10W R131 1-216-069-10 METAL GLAZE 18K 5% 1/10W R131 1-216-069-10 METAL GLAZE 18K 5% 1/10W R131 1-216-069-10 METAL GLAZE 18K 5% 1/10W R131 1-216-069-00 METAL GLAZE 56K 5% 1/10W R131 1-216-069-00 METAL GLAZE 18K 5% 1/10W R131 1-216-069-00 METAL GLAZE 56K 5% 1/10W R131 1-216-069-00 METAL | R114
R115
R117 | 1-216-045-00
1-216-061-00
1-216-073-00 | METAL GLAZE | | 5%
5% | 1/10W
1/10W | · | R188
R189
R190
R191 | 1-216-113-00
1-216-103-00
1-216-107-00
1-216-097-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 270K | 5%
5%
5% | 1/10W
1/10W
1/10W | |
| R123 1-216-073-00 METAL GLAZE 10K 5½ 1/10W R125 1-216-083-00 METAL GLAZE 27K 5½ 1/10W R125 1-216-083-00 METAL GLAZE 27K 5½ 1/10W R126 1-216-093-00 METAL GLAZE 68K 5½ 1/10W R126 1-216-093-00 METAL GLAZE 68K 5½ 1/10W R128 1-216-083-00 METAL GLAZE 27K 5½ 1/10W R129 1-216-087-00 METAL GLAZE 27K 5½ 1/10W R129 1-216-087-00 METAL GLAZE 27K 5½ 1/10W R129 1-216-087-00 METAL GLAZE 27K 5½ 1/10W R131 1-216-089-00 METAL GLAZE 10K 5½ 1/10W R131 1-216-045-00 METAL GLAZE 56K 5½ 1/10W R131 1-216-045-00 METAL GLAZE 56K 5½ 1/10W R131 1-216-045-00 METAL GLAZE 56K 5½ 1/10W R131 1-216-045-00 METAL GLAZE 10K 5½ 1/10W R131 1-216-045-00 METAL GLAZE 200 5½ 1/10W R131 1-216-045-00 METAL G | R119
R120 | 1-216-647-11
1-216-647-11 | METAL CHIP
METAL CHIP
METAL GLAZE | 680
680
100 | 0.50%
0.50% | 1/10W
1/10W
1/10W | | R192
R193
R194 | 1-216-103-00
1-216-105-00
1-216-089-00 | METAL GLAZE
METAL GLAZE | 220K
47K | 5%
5%
5% | 1/10W
1/10W | |
| R127 1-216-037-00 METAL GLAZE 330 5% 1/10W R201 1-216-043-00 METAL GLAZE 560 5% 1/10W R201 1-216-043-00 METAL GLAZE 560 5% 1/10W R201 1-216-043-00 METAL GLAZE 27K 5% 1/10W R201 1-216-043-00 METAL GLAZE 220 5% 1/10W R203 1-216-043-00 METAL GLAZE 680 5% 1/10W R203 1-216-043-00 METAL GLAZE 10K 5% 1/10W R204 1-216-043-00 METAL GLAZE 560 5% 1/10W R204 1- | R123
R124 | 1-216-073-00
1-216-073-00 | METAL GLAZE
METAL GLAZE | 10K
10K | 5%
5%
5% | 1/10W
1/10W | | R196
R197
R198 | 1-216-073-00
1-216-671-11 | METAL GLAZE METAL CHIP | 6.8K
1K | 0.50% | 1/10W
1/10W | |
| R128 1-216-083-00 METAL GLAZE 27K 5% 1/10W R129 1-216-097-00 METAL GLAZE 10K 5% 1/10W R203 1-216-097-00 METAL GLAZE 10K 5% 1/10W R203 1-216-097-00 METAL GLAZE 10K 5% 1/10W R203 1-216-097-00 METAL GLAZE 10K 5% 1/10W R204 1-216-073-00 METAL GLAZE 10K 5% 1/10W R205 1-216-043-00 METAL GLAZE 10K 5% 1/10W R206 1-216-043-00 METAL GLAZE 10K 5% 1/10W R207 1-216-045-00 METAL GLAZE 10K 5% 1/10W R207 1-216-045-00 METAL GLAZE 10K 5% 1/10W R208 1-216-045-00 METAL GLAZE 10K 5% 1/10W R208 1-216-045-00 METAL GLAZE 10K 5% 1/10W R208 1-216-045-00 METAL GLAZE 10K 5% 1/10W R209 1-216-043-00 METAL GLAZE 10K 5% 1/10W R208 1-216-065-01 METAL GLAZE 10K 5% 1/10W R209 1-216-043-00 METAL GLAZE 10K 5% 1/10W R209 1- | R126 | 1-216-093-00 | METAL GLAZE | 68K | | 1/10W | | R199
 R200 | 1-216-065-00
1-216-065-00 | METAL GLAZE
METAL GLAZE | 4.7K
4.7K | 5%
5%
5% | 1/10W
1/10W | |
| R133 1-216-045-01 METAL GLAZE 18% 5% 1/10W R134 1-216-645-11 METAL CHIP 560 0.50% 1/10W R135 1-216-645-11 METAL CHIP 560 0.50% 1/10W R136 1-216-091-00 METAL GLAZE 56K 5% 1/10W R136 1-216-091-00 METAL GLAZE 56K 5% 1/10W R137 1-216-045-00 METAL GLAZE 56K 5% 1/10W R138 1-216-657-11 METAL CHIP 1.8K 0.50% 1/10W R138 1-216-657-11 METAL CHIP 1.8K 0.50% 1/10W R139 1-216-095-00 METAL GLAZE 18K 5% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R142 1-216-073-00 METAL GLAZE 3.9K 5% 1/10W R143 1-216-085-00 METAL GLAZE 3.5K 5% 1/10W R144 1-216-085-00 METAL GLAZE 3.5K 5% 1/10W R145 1-216-085-00 METAL GLAZE 3.5K 5% 1/10W R146 1-216-037-00 METAL GLAZE 3.5K 5% 1/10W R147 1-216-089-00 METAL GLAZE 4.7K 5% 1/10W R148 1-216-671-11 METAL CHIP 1.5K 0.50% 1/10W R155 1-216-655-11 METAL CHIP 1.5K 0.50% 1/10W R158 1-216-677-11 METAL CHIP 1.5K 0.50% 1/10W R159 1-216-037-00 METAL GLAZE 2.20 5% 1/10W R150 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R151 1-216-073-00 METAL GLAZE 10K 5% 1/10W R151 1-216-073-00 METAL GLAZE 10K 5% 1/10W R151 1-216-073-00 METAL GLAZE 10K 5% 1/10W R153 1-216-073-00 METAL GLAZE 10K 5% 1/10W R161 1-216-073-00 METAL GLAZE 10K 5% 1/10W | R128
R129
R130 | 1-216-083-00
1-216-067-00
1-216-097-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 47K | 5% | 1/10W
1/10W
1/10W
1/10W | | R202
R203
R204 | 1-216-033-00
1-216-045-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 220
680
10K | | 1/10W
1/10W
1/10W | |
| R137 1-216-045-00 METAL GLAZE 680 5% 1/10W R138 1-216-657-11 METAL CHIP 1.8K 0.50% 1/10W R139 1-216-079-00 METAL GLAZE 18K 5% 1/10W R141 1-216-063-01 METAL CHIP 1.2K 0.50% 1/10W R141 1-216-063-11 METAL CHIP 1.2K 0.50% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R141 1-216-085-00 METAL GLAZE 3.9K 5% 1/10W R145 1-216-085-00 METAL GLAZE 3.9K 5% 1/10W R145 1-216-085-00 METAL GLAZE 3.9K 5% 1/10W R146 1-216-085-00 METAL GLAZE 4.7K 5% 1/10W R146 1-216-085-00 METAL GLAZE 3.9K 5% 1/10W R147 1-216-089-00 METAL GLAZE 4.7K 5% 1/10W R147 1-216-089-00 METAL GLAZE 4.7K 5% 1/10W R158 1-216-671-11 METAL CHIP 1.5K 0.50% 1/10W R155 1-216-675-11 METAL CHIP 1.5K 0.50% 1/10W R155 1-216-677-11 METAL CHIP 1.5K 0.50% 1/10W R155 1-216-677-11 METAL CHIP 1.5K 0.50% 1/10W R160 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R161 1-216 | R133 | 1-216-079-00 | METAL GLAZE
METAL GLAZE
METAL CHIP | 2.2K
18K
560 | 5%
5%
0 50% | 1/10W
1/10W | | R206 | 1-216-043-00 | METAL GLAZE | 560 | | 1/10W | |
| R138 1-216-657-11 METAL CHIP 1.8K 0.50% 1/10W R139 1-216-079-000 METAL GLAZE 18K 5% 1/10W R140 1-216-653-11 METAL CHIP 1.2K 0.50% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R141 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R143 1-216-085-00 METAL GLAZE 33K 5% 1/10W R143 1-216-085-00 METAL GLAZE 33K 5% 1/10W R145 1-216-085-00 METAL GLAZE 4.7K 5% 1/10W R146 1-216-037-00 METAL GLAZE 4.7K 5% 1/10W R146 1-216-037-00 METAL GLAZE 4.7K 5% 1/10W R147 1-216-089-00 METAL GLAZE 4.7K 5% 1/10W R148 1-216-043-00 METAL GLAZE 4.7K 5% 1/10W R148 1-216-671-11 METAL CHIP 6.8K 0.50% 1/10W R155 1-216-655-11 METAL CHIP 1.5K 0.50% 1/10W R155 1-216-679-11 METAL CHIP 1.5K 0.50% 1/10W R158 1-216-073-00 METAL GLAZE 200 5% 1/10W R158 1-216-679-11 METAL CHIP 1.5K 0.50% 1/10W R223 1-216-073-00 METAL GLAZE 10K 5% 1/10W R158 1-216-073-00 METAL GLAZE 200 5% 1/10W R225 1-216-095-00 METAL GLAZE 10K 5% 1/10W R225 1-216-095-00 METAL GLAZE 10K 5% 1/10W R225 1-216-073-00 METAL GLAZE 10K 5% 1/10W R2 | R135
R136 | 1-216-645-11
1-216-091-00 | | 680 | 5% | 1/10W | | R208
R209
R210
R211 | 1-216-671-11 | METAL CUID | 6 QV | ብ ደብኝ | 1/106 | |
| R143 1-216-085-00 METAL GLAZE 33K 5% 1/10W R145 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R146 1-216-037-00 METAL GLAZE 330 5% 1/10W R147 1-216-089-00 METAL GLAZE 47K 5% 1/10W R148 1-216-671-11 METAL CHIP 6.8K 0.50% 1/10W R155 1-216-655-11 METAL CHIP 1.5K 0.50% 1/10W R157 1-216-679-11 METAL CHIP 1.5K 0.50% 1/10W R158 1-216-677-11 METAL CHIP 12K 0.50% 1/10W R158 1-216-677-11 METAL CHIP 12K 0.50% 1/10W R160 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R161 1-216-089-00 METAL GLAZE 4.7K 5% 1/10W R163 1-216-073-00 METAL GLAZE 10K 5% 1/10W R164 1-216-073-00 METAL GLAZE 10K 5% 1/10W R165 1-216-073-00 METAL GLAZE 10K 5% 1/10W R166 1-216-073-00 METAL GLAZE 10K 5% 1/10W R167 1-216-073-00 METAL GLAZE 10K 5% 1/10W R178 1-216-073-00 METAL GLAZE 10K 5% 1/10W R189 1-216-073-00 METAL GLAZE 10K 5% 1/10W R199 1-216-073-00 METAL GLAZE 10K 5% 1/10W | R139
R140
R141 | 1-216-079-00
1-216-653-11
1-216-063-00 | METAL GLAZE
METAL CHIP
METAL GLAZE | 18K
1.2K
3.9K | 0.50%
5%
0.50%
5% | 1/10W
1/10W
1/10W | | R212
R213
R214
R215 | 1-216-065-00
1-216-043-00
1-216-043-00
1-216-127-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
560
560
1.8M | | 1/10W
1/10W
1/10W
1/10W | |
| R155 1-216-655-11 METAL CHIP 1.5K 0.50% 1/10W R157 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R158 1-216-677-11 METAL CHIP 12K 0.50% 1/10W R160 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R161 1-216-089-00 METAL GLAZE 4.7K 5% 1/10W R161 1-216-089-00 METAL GLAZE 4.7K 5% 1/10W R163 1-216-073-00 METAL GLAZE 10K 5% 1/10W | R143
R145
R146 | 1-216-085-00
1-216-065-00
1-216-037-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 33K
4.7K
330 | 5%
5%
5%
5% | 1/10W
1/10W
1/10W | | R217
R218
R219 | 1-216-033-00
1-216-295-00
1-216-043-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 220
0
560 | | 1/10W
1/10W
1/10W | |
| R160 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R224 1-216-073-00 METAL GLAZE 10K 5% 1/10W R225 1-216-095-00 METAL GLAZE 82K 5% 1/10W R226 1-216-073-00 METAL GLAZE 82K 5% 1/10W R261 1-216-073-00 METAL GLAZE 10K 5% 1/10W R261 1-216-073-00 METAL GLAZE 1/10W R261 1-216-073 | R155 | 1-216-655-11 | METAL CHIP | 1.5K | 0.50% | 1/10W | | R221 | 1-216-035-00 | METAL GLAZE | 270 | | 1/10W | |
| R163 1-216-073-00 METAL GLAZE 10K 5% 1/10W | R158
R160 | 1-216-677-11
1-216-065-00 | METAL CHIP
METAL GLAZE | 12K
4.7K | 0.50%
5% | 1/10W
1/10W | | R224
R225 | 1-216-073-00
1-216-073-00
1-216-095-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 10K
10K
82K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W | |
| | R163
R164
R165 | 1-216-073-00
1-216-677-11
1-216-107-00 | METAL GLAZE
METAL CHIP
METAL GLAZE | 10K
12K
270K | 0.50%
5% | 1/10W
1/10W
1/10W | | R227
R228 | 1-216-035-00
1-216-065-00 | METAL GLAZE
METAL GLAZE | 270
4.7K | | 1/10W
1/10W | |



| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|--------------------------------------|--|--|------------------------------------|----------------------------------|---|--------|--|--|---|---|---|--|--------|
| R230
R231
R232
R233
R234 | 1-216-081-00
1-216-113-00
1-216-105-00
1-216-073-00
1-216-041-00 | METAL GLAZE
METAL GLAZE | 22K
470K
220K
10K
470 | | 1/10W
1/10W
1/10W
1/10W
1/10W | | R301
R302
R303
R304
R305 | 1-216-065-00
1-216-113-00
1-216-065-00
1-216-049-00
1-216-049-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
470K
4.7K
1K
1K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R235
R236
R237
R238
R239 | 1-216-041-00
1-216-077-00
1-216-025-00
1-216-065-00
1-216-065-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 470
15K
100
4.7K
4.7K | | 1/10W
1/10W
1/10W
1/10W
1/10W | | R306 | 1-216-089-00
1-216-089-00
1-216-089-00
1-216-089-00
1-216-089-00
1-216-033-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47K
220
47K
47K
220 | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R240
R241
R242
R243
R244 | 1-216-033-00
1-216-073-00
1-216-051-00
1-216-113-00
1-216-065-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 220
10K
1.2K
470K
4.7K | | 1/10W
1/10W
1/10W | | R312
R313
R314 | 1-216-089-00
1-216-089-00
1-216-033-00
1-216-089-00
1-216-113-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47K
47K
220
47K
470K | 5 % % % % % % % % % % % % % % % % % % % | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R245
R246
R247
R248
R249 | 1-216-679-11
1-216-103-00
1-216-093-00
1-216-095-00
1-216-109-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 15K
180K
68K
82K
330K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | | 1-216-105-00
1-216-105-00
1-216-099-00
1-216-099-00
1-216-099-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 330K
220K
120K
120K
120K
560 | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R250
R251
R252
R253
R254 | 1-216-101-00
1-216-105-00
1-216-101-00
1-216-101-00
1-216-033-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | | | | | R321
R322
R323
R324
R325
R326 | 1-216-043-00
1-216-109-00
1-216-109-00
1-216-097-00
1-216-113-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 330K
330K
330K
100K
470K | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R256
R258
R259
R260 | 1-216-061-00
1-216-107-00
1-216-041-00
1-216-073-00
1-216-025-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | | 1-216-073-00
1-216-107-00
1-216-105-00
1-216-025-00
1-216-097-00 | METAL GLAZE | 10K
270K
220K
100
100K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W
1/10W | |
| R262
R263
R264
R265 | 1-216-035-00
1-216-097-00
1-216-029-00
1-216-065-00
1-216-067-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 270
100K
150
4.7K
5.6K | | 1/10W
1/10W
1/10W
1/10W
1/10W | | R333
R334
R335
R336
R337 | 1-216-097-00
1-216-025-00
1-216-099-00
1-216-095-00
1-216-105-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R267
R268
R269
R270 | 1-216-073-00
1-216-081-00
1-216-103-00
1-216-081-00
1-216-025-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 180K
22K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R338
R339
R340 | 1-216-025-00
1-216-099-00
1-216-095-00
1-216-105-00
1-216-047-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 100
120K
82K
220K
820 | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R272
R273
R275
R276 | 1-216-103-00
1-216-113-00
1-216-081-00
1-216-037-00
1-216-049-00 | METAL GLAZE | 100
180K
470K
22K
330 | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | i | 1-216-053-00
1-216-664-11
1-216-661-11
1-216-105-00
1-216-061-00 | | 1.5K
3.6K
2.7K
220K
3.3K | | 1/10W
1/10W | |
| R278
R280
R281
R282 | 1-216-059-00
1-216-061-00
1-216-061-00
1-216-037-00
1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 2.7K
3.3K
3.3K
330 | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R349
R350
R351
R352
R353 | 1-216-650-11
1-216-653-11
1-216-650-11
1-216-653-11
1-216-650-11 | METAL CHIP
METAL CHIP
METAL CHIP
METAL CHIP
METAL CHIP | 910
1.2K
910
1.2K
910 | 0.50%
0.50%
0.50%
0.50%
0.50% | 1/10W
1/10W
1/10W
1/10W | |
| R284
R286
R287
R288 | 1-216-059-00
1-216-061-00
1-216-061-00
1-216-037-00
1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 2.7K
3.3K
3.3K
330 | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | , | R354
R355
R356
R357
R358 | 1-216-653-11
1-216-113-00
1-216-113-00
1-216-095-00
1-216-113-00 | METAL CHIP
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1.2K
470K
470K
82K
470K | 0.50%
5%
5%
5% | | |
| R290
R292
R293
R295
R296 | 1-216-059-00
1-216-061-00
1-216-061-00
1-216-057-00
1-216-659-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL CHIP | 2.7K
3.3K
3.3K
2.2K | 5%
5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | | R359
R360
R363
R364
R365 | 1-216-081-00
1-216-089-00
1-216-069-00
1-216-073-00
1-216-073-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 22K
47K
6.8K
10K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R297
R298
R300 | 1-216-659-11
1-216-065-00
1-216-065-00 | METAL CHIP
METAL GLAZE
METAL GLAZE | 2.2K
4.7K
4.7K | 0.50%
5%
5% | 1/10W
1/10W
1/10W | | R366
R367 | 1-216-244-00
1-216-244-00 | METAL GLAZE
METAL GLAZE | 82K
82K | 5%
5% | 1/8W
1/8W | |

В

| REF.NO. PART NO. | DESCRIPTION | | REMA | ARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|--|--|---|--|-----|---|--|---|--|----------------------------------|--|--------|
| R368 1-216-055-0
R369 1-216-248-0
R370 1-216-115-0
R371 1-216-067-0
R372 1-216-115-0 | N MFTA! CIA7F 1 | 120K 5%
560K 5%
5.6K 5% | 1/10W
1/8W
1/10W
1/10W
1/10W | | R1042
R1043
R1044 | 1-216-025-00
1-216-047-00
1-216-057-00
1-216-061-00
1-216-125-00
1-216-689-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 100
820
2.2K
3.3K
1.5M | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R374 1-216-115-0
R375 1-216-683-1
R376 1-216-663-1
R378 1-216-025-0
R379 1-216-641-1 | 1 METAL CHIP 2
1 METAL CHIP 3
0 METAL GLAZE 1
1 METAL CHIP 3 | 560K 5%
22K 0.50%
3.3K 0.50%
100 5%
390 0.50% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1047
R1048
R1049 | 1-216-065-00
1-216-049-00
1-216-085-00 | METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 39K
4.7K
1K
33K
2.7K
220K | 0.50% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R380 1-216-668-1
R381 1-216-089-0
R382 1-216-025-0
R383 1-216-641-1
R384 1-216-668-1 | O METAL GLAZE 4
O METAL GLAZE 1
1 METAL CHIP 3
1 METAL CHIP 5 | 5. 1K 0.50%
47K 5%
100 5%
390 0.50%
5. 1K 0.50% | 1/10W
1/10W
1/10W | | R1053
R1054 | 1-216-091-00
1-216-093-00 | METAL GLAZE METAL GLAZE | 220K
56K
68K
100K
330
4.7K | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R387 1-216-641-1
R388 1-216-668-1
R389 1-216-089-0 | O METAL CHIP 5 | 580K 5%
100 5%
390 0.50%
5.1K 0.50%
47K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1057
R1058
R1059
R1060
R1061 | 1-216-037-00
1-216-037-00
1-216-065-00
1-216-109-00
1-216-109-00
1-216-109-00
1-216-103-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 330K
330K
330K
330K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R391 1-216-081-0
R392 1-216-113-0
R393 1-216-085-0
R394 1-216-113-0 | | 22K 5%
47OK 5%
33K 5%
47OK 5% | 1/10W
1/10W | | R1064 | 1-216-103-00
1-216-103-00
1-216-103-00
1-216-103-00
1-216-073-00
1-216-073-00 | METAL GLAZE | 180K
180K
180K
180K
10K
10K | 5%
5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W
1/10W | |
| R397 1-249-437-1
R398 1-249-434-1
R399 1-216-073-C
R1001 1-216-073-C
R1002 1-216-047-C | | 10K 5%
10K 5%
820 5% | 1/4W F
1/4W F
1/10W
1/10W
1/10W | | R1068
R1069
R1070
R1071 | 1-216-073-00
1-216-049-00
1-216-133-00
1-216-085-00
1-216-113-00
1-216-099-00 | METAL GLAZE
METAL GLAZE | 1K
3.3M
33K
470K | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1004 1-216-061-0
R1005 1-216-047-0
R1006 1-216-055-0
R1007 1-216-061-0 | | 3.3K 5%
820 5%
1.8K 5%
3.3K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W
1/10W | | R1073
R1075
R1076
R1077 | 1-216-131-11
1-216-065-00
1-216-101-00
1-216-103-00
1-216-131-11 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1008 1-216-047-0
R1009 1-216-053-0
R1010 1-216-061-0
R1011 1-216-033-0
R1012 1-216-051-0
R1013 1-216-051-0 | | 1.5K 5%
3.3K 5%
220 5%
1.2K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1080
R1081
R1082 | 1-216-097-00
1-216-097-00
1-216-105-00
1-216-065-00
1-216-063-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1013 1-216-246-(
R1015 1-216-033-(
R1016 1-216-089-(
R1017 1-216-045-(
R1018 1-216-043-(| O METAL GLAZE 2
O METAL GLAZE 4
O METAL GLAZE 6 | 100K 5%
220 5%
47K 5%
680 5% | 1 / 0 14 | | R1086
R1087
R1088
R1090 | 1-216-073-00
1-216-121-00
1-216-047-00
1-216-049-00
1-216-049-00 | | 10K
1M
820
1K
1K | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1019 1-216-033-6
R1020 1-216-089-6
R1021 1-216-045-6
R1022 1-216-025-6
R1023 1-216-073-6 | O METAL GLAZE 2
O METAL GLAZE 4
O METAL GLAZE 6
O METAL GLAZE 1 | 220 5%
47K 5%
680 5%
100 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1092
R1093
R1094
R1095
R1096 | 1-216-049-00
1-216-121-00
1-216-075-00
1-216-075-00
1-216-075-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1K
1M
12K
12K
12K | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1024 1-216-025-0
R1025 1-216-033-0
R1026 1-216-061-0
R1027 1-216-101-0 | O METAL GLAZE O METAL GLAZE O METAL GLAZE O METAL GLAZE | 100 5%
220 5%
3.3K 5%
150K 5% | 1/10W
1/10W
1/10W
1/10W | | R1200
R1201
R1207
R1208 | 1-216-699-11
1-218-754-11
1-216-061-00
1-216-065-00 | METAL CHIP
METAL CHIP
METAL GLAZE
METAL GLAZE | 100K
120K
3.3K
4.7K | 0.50% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1028 1-216-033-(
R1029 1-216-061-(
R1030 1-216-089-(
R1031 1-216-033-(
R1032 1-216-061-(| 10 METAL GLAZE 10 METAL GLAZE 10 METAL GLAZE 10 METAL GLAZE 11 METAL GLAZE | 3.3K 5%
47K 5%
220 5%
3.3K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1220
R1221
R1222
R1223
R1225 | 1-216-055-00
1-216-055-00
1-216-689-11
1-215-876-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE | 1.8K
1.8K
1.8K
39K
15K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | F |
| R1033 1-216-081-0
R1035 1-216-073-0
R1036 1-216-089-0
R1038 1-216-081-0 | O METAL GLAZE 1 | 10K 5%
47K 5% | 1/10W
1/10W
1/10W
1/10W | | R1226
R1227
R1228 | 1-215-876-00
1-215-876-00
1-249-421-11 | METAL OXIDE
METAL OXIDE
CARBON | 15K
15K
2.2K | 5%
5%
5% | 1W | F
F |

PVM-9041QM/9044QM





| REF.NO. PART NO. | DESCRIPTION | | REMARK | REF.NO. PART NO. DESCRIPTION REMARK |
|--|--|------------------------------------|---|---|
| R1229 1-249-421-11
R1230 1-249-421-11
R1231 1-216-029-00
R1232 1-216-029-00
R1233 1-216-029-00 | | K 5%
5%
5%
5% | 1/4W F
1/4W F
1/10W
1/10W
1/10W | R1348 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1349 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1350 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1351 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1352 1-216-073-00 METAL GLAZE 10K 5% 1/10W |
| R1234 1-216-029-00
R1235 1-216-029-00
R1236 1-216-029-00
R1237 1-249-419-11
R1238 1-249-419-11 | METAL GLAZE 150 METAL GLAZE 150 METAL GLAZE 150 CARBON 1.5 CARBON 1.5 | 5%
5%
5%
K 5%
K 5% | 1/10W
1/10W
1/10W
1/4W F
1/4W F | R1349 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1350 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1351 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1352 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1353 1-216-115-00 METAL GLAZE 560K 5% 1/10W R1371 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R1372 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R1373 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R1393 1-216-089-00 METAL GLAZE 47K 5% 1/10W R1393 1-216-095-00 METAL GLAZE 82K 5% 1/10W |
| R1239 1-249-419-11
R1270 1-216-079-00
R1271 1-216-057-00
R1280 1-216-109-00
R1290 1-216-071-00 | CARBON 1.5 METAL GLAZE 18K METAL GLAZE 2.2 METAL GLAZE 330 METAL GLAZE 8.2 | K 5%
5%
K 5%
K 5% | 1/4W F
1/10W
1/10W
1/10W
1/10W | R1393 1-216-095-00 METAL GLAZE 47K 5% 1/10W |
| R1291 1-216-081-00
R1294 1-216-069-00
R1295 1-216-109-00
R1296 1-216-095-00
R1297 1-216-071-00 | | 5%
K 5%
K 5%
5%
K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | RV101 1-241-763-11 RES, ADJ, CERMET 4.7K
RV102 1-241-763-11 RES, ADJ, CERMET 4.7K
RV103 1-238-009-11 RES, ADJ, CARBON 220
RV104 1-238-009-11 RES, ADJ, CARBON 220
RV105 1-241-627-11 RES, ADJ, CARBON 1K |
| R1298 1-216-071-00
R1299 1-216-071-00
R1300 1-216-089-00
R1301 1-216-065-00
R1302 1-216-113-00 | METAL GLAZE 8.2 METAL GLAZE 8.2 METAL GLAZE 47K METAL GLAZE 4.7 | K 5%
K 5%
5%
K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | RV106 1-241-627-11 RES, ADJ, CARBON 1K
RV107 1-241-627-11 RES, ADJ, CARBON 1K
RV108 1-241-630-11 RES, ADJ, CARBON 10K
RV109 1-241-765-11 RES, ADJ, CERMET 22K
RV110 1-241-630-11 RES, ADJ, CARBON 10K |
| R1303 1-216-113-00
R1304 1-216-091-00
R1305 1-216-093-00
R1306 1-216-063-00
R1307 1-216-041-00 | | K 5%
5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | R1393 1-216-095-00 METAL GLAZE 82K 54 1710W |
| R1308 1-216-041-00
R1309 1-216-063-00
R1310 1-216-119-00
R1313 1-216-101-00
R1314 1-216-053-00 | | 5%
K 5%
K 5%
K 5%
K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | RV116 1-241-631-11 RES, ADJ, CARBON 22K
RV118 1-241-631-11 RES, ADJ, CARBON 22K
RV119 1-241-631-11 RES, ADJ, CARBON 22K
RV120 1-241-631-11 RES, ADJ, CARBON 22K
RV121 1-241-631-11 RES, ADJ, CARBON 22K |
| R1315 1-216-077-00
R1320 1-216-083-00
R1321 1-216-093-00
R1322 1-216-037-00
R1323 1-216-057-00 | | 5%
5%
5%
5%
K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | RV122 1-241-631-11 RES, ADJ, CARBON 22K RV123 1-241-628-11 RES, ADJ, CARBON 2.2K RV124 1-241-627-11 RES, ADJ, CARBON 1K RV125 1-241-627-11 RES, ADJ, CARBON 1K RV205 1-241-631-11 RES, ADJ, CARBON 22K |
| R1324 1-216-121-00
R1325 1-216-085-00
R1326 1-216-065-00
R1327 1-216-099-00
R1328 1-216-099-00 | METAL GLAZE 1M
METAL GLAZE 33K
METAL GLAZE 4.7
METAL GLAZE 120 | 5%
K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | SEP101 1-808-654-11 MODULE |
| R1329 1-216-093-00
R1330 1-216-063-00
R1331 1-216-051-00
R1332 1-216-057-00
R1333 1-216-057-00 | METAL GLAZE 68K METAL GLAZE 1.2 METAL GLAZE 2.2 METAL GLAZE 2.2 | 5%
K 5%
K 5%
K 5%
K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | <crystal> X101 1-527-722-00 OSCILLATOR, CRYSTAL X102 1-577-259-11 VIBRATOR, CRYSTAL ************************************</crystal> |
| R1334 1-216-055-00
R1335 1-216-035-00
R1336 1-216-089-00
R1337 1-216-113-00
R1338 1-216-049-00 | METAL GLAZE 1.8 METAL GLAZE 270 METAL GLAZE 47K METAL GLAZE 470 METAL GLAZE 1K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | A-1346-018-A D BOARD, COMPLETE ********************************** |
| R1339 1-216-097-00
R1340 1-216-097-00
R1341 1-216-111-00
R1342 1-216-694-11
R1343 1-216-121-00 | METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 390 METAL CHIP 62K METAL GLAZE 1M | K 5%
K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | 4-382-854-01 SCREW (M3X8), P, SW (+)
4-382-854-11 SCREW (M3X10), P, SW (+)
<capacitor></capacitor> |
| R1344 1-216-073-00
R1345 1-216-055-00
R1346 1-216-047-00
R1347 1-216-073-00 | METAL GLAZE 1.8 METAL GLAZE 1.8 METAL GLAZE 820 METAL GLAZE 10K | K 5%
5% | 1/10W
1/10W
1/10W
1/10W | C501 |



| REF.NO. | PART NO. | DESCRIPTION | • | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|--------------------------------------|--|--|--|---------------------------------|------------------------------------|---------------------------------------|--|---|-----------------------------------|---------------------------------|---------------------------------|
| C506
C507
C508
C509
C510 | 1-124-903-11
1-106-367-00
1-124-903-11
1-136-173-00
1-136-161-00 | ELECT
MYLAR
ELECT
FILM
FILM | 1MF
0.01MF
1MF
0.47MF
0.047MF | 20%
10%
20%
5% | 50V
100V
50V
50V
50V | C840
C841
C843
C844
C845 | 1-163-209-00
1-163-209-00
1-124-902-00
1-124-902-00
1-124-477-11 | CERAMIC CHIP | | 5%
5%
20%
20%
20% | 50V
50V
50V
50V
25V |
| C511
C512
C513
C514
C515 | 1-124-903-11
1-106-375-12
1-106-375-12
1-106-371-00
1-124-925-11 | MYLAR
MYLAR
MYLAR | 1MF
0.022MF
0.022MF
0.015MF
2.2MF | 20%
10%
10%
10%
20% | 50V
100V
100V
100V
50V | C846
C847
C848
C849 | 1-124-907-11
1-124-916-11
1-131-351-00
1-164-182-11 | ELECT ELECT TANTALUM CERAMIC CHIP | 10MF
22MF
4.7MF
0.0033MF | 20% | 50V
50V
35V
50V
50V |
| C516
C517
C518
C519
C520 | 1-124-925-11
1-130-480-00
1-163-245-11
1-124-927-11
1-163-129-00 | FILM
CERAMIC CHIP
ELECT | 4.7MF | 20%
5%
5%
20%
5% | 50V
50V
50V
50V
50V | C1603
C1604
C1605 | 1-124-907-11
1-164-161-11
1-104-348-11
1-128-500-51
1-124-922-11
1-163-009-11 | ELECT
ELECT
ELECT | 15MF
1000MF
1000MF | 20%
20%
20%
20%
10% | 50V
50V
50V
50V
50V |
| C521
C523
C524
C525
C526 | 1-124-907-11
1-106-363-00
1-102-116-00
1-102-820-00
1-102-973-00 | MYLAR
CERAMIC
CERAMIC | 10MF
0.0068MF
680PF
330PF
100PF | 20%
10%
10%
5%
5% | 50V
100V
50V
50V
50V | C1607
C1608
C1609 | 1-124-907-11
1-124-916-11
1-163-009-11
1-124-927-11 | ELECT
ELECT
CERAMIC CHIP | 10MF
22MF
0.001MF | 20% | 50V
50V
50V
50V
35V |
| C527
C528
C529
C530
C531 | 1-124-122-11
1-102-125-00
1-124-910-11
1-163-097-00
1-131-370-00 | ELECT | 47MF | 20%
10%
20%
5%
10% | 50V
50V
50V
50V
16V | C1613
C1614
C1615 | 1-124-482-11
1-136-257-00
1-163-009-11
1-164-232-11
1-124-465-00
1-163-133-00 | CERAMIC CHIP
CERAMIC CHIP
ELECT | 0.0039MF | 5%
10%
10%
20% | 50V
50V
50V
50V
50V |
| C532
C533
C534
C535
C536 | 1-124-557-11
1-124-927-11
1-124-768-11
1-136-161-00
1-124-927-11 | ELECT | 1000MF
4.7MF
4.7MF
0.047MF
4.7MF | 20%
20%
20%
5%
20% | 25V
50V
50V
50V
50V | C1621 | 1-163-117-00
1-163-035-00 | CERAMIC CHIP | | 5%
5% | 50V
50V |
| C537
C538
C539
C540
C541 | 1-124-484-11
1-124-910-11
1-136-113-00
1-163-017-00
1-163-035-00 | FILM | 220MF
47MF
2MF
0.0047MF
0.047MF | 20%
20%
5%
10% | 35V
50V
200V
50V
50V | CN502
CN504 | *1-564-506-11
1-506-477-11
*1-564-507-11
*1-564-509-11
*1-564-511-11 | PIN, CONNECTO
PLUG. CONNECT | OR 12P
For 4P | | |
| C542
C545
C546
C547
C548 | 1-126-103-11
1-126-101-11
1-124-907-11
1-124-907-11
1-124-907-11 | ELECT
ELECT
ELECT | 470MF
100MF
10MF
10MF
10MF | 20%
20%
20%
20%
20% | 16V
16V
50V
50V
50V | CN508 | *1-564-104-00
*1-564-506-11 | PIN, CONNECTO
PLUG, CONNEC | OR (B3P-VH) | 3P | |
| C549
C550
C551
C552
C553 | 1-124-907-11
1-124-907-11
1-124-927-11
1-101-004-00
1-126-103-11 | ELECT
ELECT
CERAMIC | 10MF
10MF
4.7MF
0.01MF
470MF | 20%
20%
20%
20% | 50V
50V
50V
50V
16V | D501
D502
D503
D504
D506 | <dio< p=""> 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-908-03</dio<> | DIODE MAILO
DIODE MAILO | | | |
| C563
C564
C567
C568
C569 | 1-106-383-00
1-163-009-11
1-124-907-11
1-130-736-11
1-130-471-00 | MYLAR
CERAMIC CHIP
ELECT
FILM
FILM | 0.047MF
0.001MF
10MF
0.01MF
0.001MF | 10%
10%
20%
5%
5% | 100V
50V
50V
50V
50V | D507
D508
D511
D512
D514 | 8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110
DIODE MA110
DIODE MA110
DIODE MA110 | | | |
| C570
C571
C572
C574
C575 | 1-163-117-00
1-124-913-11
1-101-004-00
1-106-351-00
1-106-351-00 | CERAMIC CHIP
ELECT
CERAMIC
MYLAR
MYLAR | 100PF
470MF
0.01MF
0.0022MF
0.0022MF | 5%
20%
10%
10% | 50V
50V
50V
100V
100V | D520
D521
D831
D832
D833 | 8-719-800-76
8-719-800-76
8-719-800-76
8-719-404-46
8-719-404-46 | DIODE 1SS226
DIODE 1SS226
DIODE MAI10
DIODE MAI10
DIODE MAI10 | | | |
| C831
C832
C833
C834
C835 | 1-124-907-11
1-124-907-11
1-163-009-11
1-163-121-00
1-163-209-00 | ELECT
ELECT
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP | 150PF | 20%
20%
10%
5% | 50V
50V
50V
50V
50V | D834
D835
D836
D848
D1601 | 8-719-404-46
8-719-109-89
8-719-977-69
8-719-800-76
8-719-105-XX | DIODE MAIIO
DIODE RD5.6E
DIODE DT224B
DIODE 1SS226
DIODE RD6.2M | | | |
| C836
C837
C838
C839 | 1-124-907-11
1-163-209-00
1-136-163-00
1-106-351-00 | ELECT
CERAMIC CHIP
FILM
MYLAR | 10MF
0.0015MF
0.068MF
0.0022MF | 20%
5%
5%
10% | 50V
50V
50V
100V | D1603
D1606
D1607 | 8-719-977-61
8-719-981-00 | DIODE DTZ20B
DIODE ERC81-0
DIODE ERC81-0 | 004 | | |



The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

| REF.NO. PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|--|---|-----------|---|--|---|--|-----------------------------------|---------------------------------------|--------|
| D1608 8-719-977-02
D1609 8-719-977-49
D1610 8-719-404-46
D1611 8-729-101-31
D1612 8-719-404-46 | DESCRIPTION DIODE DTZ5.6A DIODE DTZ15B DIODE MA110 TRANSISTOR N13T1 DIODE MA110 DIODE MA110 DIODE MA12B DIODE DTZ15B DIODE DTZ15B DIODE DTZ15B DIODE MA152WK DIODE MA152WK DIODE MA152WK DIODE MA152WK DIODE MA110 | | Q532
Q569
Q576
Q579
Q579 | 8-729-422-27
8-729-907-26
8-729-920-48
8-729-920-48
8-729-920-48 | TRANSISTOR 2 TRANSISTOR I TRANSISTOR I TRANSISTOR I TRANSISTOR I | SD601A-Q
MX1
MH2
MH2
MH2 | | | |
| D1615 8-719-404-46
D1617 8-719-977-49
D1618 8-719-977-49
D1620 8-719-400-18
D1621 8-719-510-12 | DIODE MA110
DIODE DTZ15B
DIODE DTZ15B
DIODE MA152WK
DIODE DIOSC4M | | Q833
Q834
Q835
Q836
Q1601 | 8-729-216-22
8-729-422-27
8-729-422-27
8-729-255-12
8-729-422-27 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | 2SA1162-G
2SD601A-Q
2SD601A-Q
2SC2551-0
2SD601A-Q | | | |
| D1622 8-719-400-18
D1623 8-719-400-18
D1626 8-719-404-46
D1627 8-719-404-46
D1628 8-719-404-46 | DIODE MA152WK
DIODE MA152WK
DIODE MA110
DIODE MA110
DIODE MA110 | | Q1602
Q1603
Q1604
Q1605
Q1606 | 8-729-422-27
8-729-422-27
8-729-216-22
8-729-119-80
8-729-133-42 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | 2SD601A-Q
2SD601A-Q
2SA1162-G
2SC2688-LK
2SC2334-L | | | |
| D1635 8-719-404-46
D1699 8-719-404-46 | DIODE MA110
DIODE MA110 | | Q1607
Q1608 | 8-729-422-27
8-729-422-27 | TRANSISTOR 2 TRANSISTOR 2 | SD601A-Q
SD601A-Q | | | |
| <fus< p=""></fus<> | E> FUSE, MICRO (SECONDARY) (1.25A/1 | . o.e.v.\ | Q1609
Q1610
Q1611 | 8-729-422-27
8-729-422-27
8-729-422-27 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SD601A-Q
SD601A-Q
SD601A-Q | | | |
| F1601A. 1-532-777-21
F1602A. 1-576-232-11 | FUSE (H. B. C) (5. OA/250V) | 1257) | Q1613 | 8-729-422-27
8-729-422-27
8-720-422-27 | TRANSISTOR 2 | SD601A-Q | | | |
| IC501 8-759-909-70
IC502 8-759-100-60 | FUSE, MICRO (SECONDARY) (1.25A/1) FUSE (H.B.C) (5.0A/250V) IC CX23025 IC UPC1377C IC LA7830 IC MC7812CT IC MC14538BF IC XRU4011BF IC XRU4010BF | æ () · | Q1615
Q1616
Q1617 | 8-729-216-22
8-729-216-22
8-729-216-22 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SA1162-G
SA1162-G
SA1162-G | | | |
| 10503 8-759-801-98
10504 8-759-701-79
10505 8-759-009-51 | IC LA7830
IC MC7812CT
IC MC14538BF | | Q1618 | 8-729-216-22 | TRANSISTOR 2 | SA1162-G | | | |
| IC831 8-759-509-29
IC832 8-759-509-37 | IC XRU4011BF
IC XRU4070BF
IC MC14538BF
IC XRA10393F | | | <res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td></res<> | ISTOR> | | | | |
| 10833 8-759-009-51
101601 8-759-509-91 | IC MC14538BF
IC XRA10393F | | R501
R502
R503
R504 | 1-216-089-00
1-216-089-00
1-249-437-11
1-216-073-00 | CARBON | 47K 5
47K 5
47K 5
10K 5
10 5 | % 1
% 1
% 1 | /10W
/10W .
/4W F
/10W | |
| | PER RESISTOR> | | R505 | 1-249-393-11 | | | | /4W F | |
| JR510 1-216-295-00 <coi< td=""><td></td><td></td><td>R507
R508
R509</td><td>1-216-071-00
1-216-059-00
1-216-085-00
1-216-687-11
1-216-683-11</td><td>METAL GLAZE
METAL GLAZE
METAL CHIP</td><td>224 0</td><td>.50% 1</td><td>/10N</td><td></td></coi<> | | | R507
R508
R509 | 1-216-071-00
1-216-059-00
1-216-085-00
1-216-687-11
1-216-683-11 | METAL GLAZE
METAL GLAZE
METAL CHIP | 224 0 | .50% 1 | /10N | |
| L506 1-412-530-31 | INDUCTOR 15UH
COIL, CHOKE (PMC) 390UH | | R511
R512
R513
R514
R515 | 1-216-675-11
1-218-761-11
1-216-065-00
1-218-754-11
1-216-081-00 | METAL CHIP
METAL CHIP
METAL GLAZE
METAL CHIP
METAL GLAZE | 10K 0
240K 0
4.7K 5
120K 0
22K 5 | .50% 1
.50% 1
% 1
.50% 1 | /10W
/10W
/10W
/10W
/10W | |
| L1602 1-402-785-11
L1603 1-410-397-21 | COIL, CHOKE 600UH
FERRITE BEAD INDUCTOR | | R516
R517 | 1-216-073-00
1-218-762-11 | METAL GLAZE
METAL CHIP | 10K 5
270K 0 | % 1
.50% 1 | /10W | |
| <tra< td=""><td>NSISTOR></td><td></td><td>R518
R519
R520</td><td>1-249-422-11
1-216-085-00
1-216-677-11</td><td>CARBON
METAL GLAZE
METAL CHIP</td><td>33K 5</td><td>% 1
% 1
.50% 1</td><td>/10W</td><td></td></tra<> | NSISTOR> | | R518
R519
R520 | 1-249-422-11
1-216-085-00
1-216-677-11 | CARBON
METAL GLAZE
METAL CHIP | 33K 5 | % 1
% 1
.50% 1 | /10W | |
| Q501 8-729-901-01
Q502 8-729-901-01
Q503 8-729-901-06
Q504 8-729-901-01
Q505 8-729-422-27 | TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTA144EK TRANSISTOR DTC144EK TRANSISTOR 2SD601A-Q | | R521
R522
R523
R524
R525 | 1-216-067-00
1-216-107-00
1-216-081-00
1-216-049-00
1-216-434-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL OXIDE | 5.6K 5
270K 5
22K 5
1K 5
1.8K 5 | % 1
% 1
% 1
% 1 | /10W
/10W
/10W
/10W
W F | |
| Q508 8-729-422-27
Q509 8-729-422-27
Q510 8-729-901-06
Q512 8-729-422-27
Q513 8-729-216-22 | FERRITE BEAD INDUCTOR NSISTOR> TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR ZSD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD1134-C TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q | | R526
R527
R528
R529
R530 | 1-216-079-00
1-249-437-11
1-216-073-00
1-216-073-00
1-216-089-00 | | 18K 5
47K 5
10K 5
10K 5
47K 5 | % 1
% 1
% 1 | /10W
/4W F
/10W
/10W
/10W | |
| Q514 8-729-216-22
Q515 8-729-313-42
Q518 8-729-422-27
Q519 8-729-422-27 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SD1134-C
TRANSISTOR 2SD601A-Q
TRANSISTOR 2SD601A-Q | | - | 1-216-089-00
1-216-097-00
1-216-089-00 | METAL GLAZE | 47K 5
100K 5
47K 5 | | /10W
/10W
/10W | |



| REF.NO. | PART NO. | DESCRIPTION | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|--------------------------------------|--|---|------------------------------------|-------------------------|--|---|--|---|---|---|--------------------------|
| R534
R535
R536
R537
R538 | 1-216-097-00
1-216-053-00
1-212-881-11
1-215-867-00
1-216-095-00 | METAL GLAZE
FUSIBLE
METAL OXIDE
METAL GLAZE | 100K
1.5K
100
470
82K | | 1/10W
1/10W
1/4W F
1W F
1/10W | R852
R853
R854
R855
R856 | 1-216-675-11
1-216-105-00
1-218-754-11
1-216-697-11
1-216-699-11 | METAL CHIP METAL CHIP METAL CHIP METAL CHIP | 220K
120K
82K
100K | 0.50% 1/10
5% 1/10
0.50% 1/10
0.50% 1/10
0.50% 1/10 | ₩
₩
₩ |
| R539
R540
R541
R542
R543 | 1-216-095-00
1-216-101-00
1-216-063-00
1-216-075-00
1-216-065-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | R857
R858
R859
R860
R861 | 1-216-686-11
1-216-061-00
1-216-436-00
1-216-675-11
1-216-671-11 | METAL CHIP METAL GLAZE METAL OXIDE METAL CHIP METAL CHIP | 3.3K
3.9K
10K
6.8K | 0.50% 1/10 | W
F
W
W |
| R544
R545
R546
R547
R548 | 1-216-091-00
1-216-121-00
1-216-107-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1 M
270 K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | R862
R863
R1503
R1504
R1505 | 1-216-675-11
1-249-435-11
1-216-049-00
1-216-695-11
1-216-089-00 | METAL CHIP CARBON METAL GLAZE METAL CHIP METAL GLAZE | 33K
1K
68K
47K | 0.50% 1/10
5% 1/40
5% 1/10
0.50% 1/10
5% 1/10 | F
W
W |
| R549
R550
R552
R553
R554 | 1-216-689-11
1-216-073-00 | METAL OXIDE
METAL GLAZE
METAL GLAZE
METAL GLAZE | | 5%
5%
5% | 1/10W
1W F
1/10W
1/10W
1/10W | R1510 | 1-216-667-11
1-216-081-00
1-216-073-00
1-216-065-00
1-249-425-11 | METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE CARBON | 22K
10K
4.7K
4.7K | 0.50% 1/10
5% 1/10
5% 1/10
5% 1/10
5% 1/44
5% 1/10 | W
W
F |
| R555
R557
R558
R559
R560 | 1-216-077-00
1-216-057-00
1-216-049-00
1-216-065-00
1-216-037-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 15K
2.2K
1K
4.7K
330 | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | R1511
R1512
R1513
R1519
R1520 | 1-216-033-00
1-216-049-00
1-216-017-00
1-216-031-00
1-216-053-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K
47
180
1.5K | 5% 1/10
5% 1/10
5% 1/10
5% 1/10 | W
IW
IW
IW |
| R561
R562
R563
R564
R565 | 1-216-081-00
1-216-053-00
1-216-061-00
1-249-415-11
1-216-059-00 | METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE | 22K
1.5K
3.3K
680
2.7K | | 1/10W
1/10W
1/10W
1/4W F
1/10W | R1601
R1602
R1603
R1604
R1605 | 1-216-685-11
1-216-681-11
1-216-671-11
1-249-433-11
1-216-070-00 | METAL CHIP
METAL CHIP
METAL CHIP
CARBON
METAL GLAZE | 27K
18K
6.8K
22K
7.5K
7.5K | 0.50% 1/10
0.50% 1/10
0.50% 1/10
5% 1/40
5% 1/10
5% 1/10 | OW
OW
J F
OW . |
| R566
R567
R568
R569
R570 | 1-216-025-00
1-216-095-00
1-216-063-00
1-216-063-00
1-216-093-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | R1606
R1607
R1608
R1609
R1610 | 1-216-070-00
1-216-071-00
1-216-065-00
1-216-069-00
1-216-057-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 8.2K
4.7K | 5% 1/10
5% 1/10
5% 1/10
5% 1/10 | JW
JW
JW |
| R571
R572
R573
R574
R575 | 1-216-089-00
1-216-095-00
1-216-063-00
1-216-063-00
1-216-105-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47K
82K
3.9K
3.9K
220K | | 1/10W
1/10W
1/10W
1/10W
1/10W | R1611
R1612
R1613
R1614
R1615 | 1-216-057-00
1-215-913-11
1-216-025-00
1-216-067-00
1-216-657-11 | METAL OXIDE
METAL GLAZE
METAL GLAZE
METAL CHIP | 220
100
5.6K
1.8K | 5% 3W
5% 1/10
5% 1/10
0.50% 1/10 | F
OW
OW
OW |
| R576
R577
R578
R579
R589 | 1-216-109-00
1-216-105-00
1-249-457-11
1-249-457-11
1-216-101-00 | CARBON
CARBON
METAL GLAZE | 330K
220K
6.8
6.8
150K | 5%
5%
5% | 1/4W F
1/10W | R1617
R1618
R1620
R1621 | 1-216-629-11
1-216-659-11
1-216-073-00
1-216-065-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 2.2K
10K
4.7K
10K | 0.50% 1/10
0.50% 1/10
5% 1/10
5% 1/10
5% 1/10
5% 1/10 |) M
) M
) M
) M |
| R591
R592
R831
R832
R833 | 1-216-063-00
1-216-033-00
1-216-049-00
1-216-075-00
1-216-065-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.9K
220
1K
12K
4.7K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | R1622
R1623
R1624
R1625
R1626 | 1-216-073-00
1-216-073-00
1-216-246-00
1-216-061-00
1-216-065-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 10K
10K
100K
3.3K
4.7K | 5% 1/10
5% 1/89
5% 1/10
5% 1/10 |) W
O W
O W |
| R834
R835
R836
R837
R838 | 1-216-059-00
1-216-081-00
1-216-049-00
1-216-075-00
1-216-049-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 2.7K
22K
1K
12K
1K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | R1627
R1628
R1629
R1630
R1631 | 1-216-049-00
1-216-073-00
1-216-683-11
1-216-057-00 | METAL CHIP
METAL CHIP
METAL GLAZE | 1K
10K
22K
22K
2.2K | 5% 1/10
0.50% 1/10
0.50% 1/10
5% 1/10 | OM
OM
OM |
| R839
R840
R841
R842
R843 | 1-216-061-00
1-216-097-00
1-216-093-00
1-216-093-00
1-216-065-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.3K
100K
68K
68K
4.7K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | R1632
R1633
R1634
R1635
R1636 | 1-216-042-00
1-216-109-00
1-216-099-00
1-216-097-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 330K
120K
100K
10K | 5% 1/1
5% 1/1
5% 1/1
5% 1/1 | OW
OW
OW |
| R844
R847
R850
R851 | 1-216-077-00
1-216-049-00
1-216-085-00
1-216-669-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL CHIP | 15K
1K
33K
5.6K | 5%
5%
5%
0.50% | 1/10W
1/10W
1/10W
1/10W | R1640
R1641
R1642 | 1-216-063-00
1-216-073-00
1-216-073-00 | METAL GLAZE | 3.9K
10K
10K | 5% 1/1
5% 1/1
5% 1/1 | OW . |

PVM-9041QM/9044QM

| | - 1 |
|---|-----|
| 1 | |
| | |
| | |
| 1 | |
| 1 | |
| | |
| | |
| | |

S

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

| | J | | | | | | ***** | | | |
|----------------------------------|---|--|--|--------------------------|----------------------------------|--|--|--|----------------------------------|---------------------------------|
| REF.NO. | PART NO. | DESCRIPTION | | REMARK | 1 | | | | | REMARK |
| R1644
R1645
R1646 | 1-216-073-00
1-216-073-00 | METAL GLAZE 101
METAL GLAZE 101 | 3% 1/10W | | i | | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP 1 | | | 50V
50V
50V |
| R1648
R1649
R1650 | 1-216-685-11
1-216-069-00
1-216-069-00
1-216-069-00 | METAL GLAZE 6.8
METAL GLAZE 6.8 | 3K 5% 1/10W
3K 5% 1/10W
3K 5% 1/10W | | C1114
C1115 | 1-163-103-00
1-164-004-11 | CERAMIC CHIP CERAM | 27PF
).1MF | 10%
20%
5%
5%
10% | 50V
50V
50V
50V
25V |
| R1652
R1653
R1654 | 1-216-069-00
1-216-069-00
1-216-681-11
1-216-081-00 | METAL GLAZE 6.3 METAL GLAZE 6.3 METAL GLAZE 6.3 METAL CHIP 181 METAL GLAZE 221 | 3K 5% 1/10W
3K 5% 1/10W
C 0.50% 1/10W | | C1119 | 1-163-020-00 | CERAMIC CHIP TO CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP I | 0.0082MF | 5%
20%
10%
10%
5% | 50V
16V
25V
50V
50V |
| R1656
R1657
R1658
R1659 | 1-216-643-11
1-216-081-00
1-216-063-00
1-216-049-00 | METAL CHIP 470 METAL GLAZE 221 METAL GLAZE 3.9 METAL GLAZE 1K | 0.50% 1/10W
5% 1/10W
9K 5% 1/10W
5% 1/10W | | C1121
C1122
C1123
C1130 | 1-163-097-00
1-163-222-11
1-163-097-00
1-163-097-00 | CERAMIC CHIP I
CERAMIC CHIP I
CERAMIC CHIP I
CERAMIC CHIP I | 15PF
15PF
15PF | 5%
0.25PF
5%
5% | 50V |
| R1661 | 1-216-049-11
1-216-065-00
<var< td=""><td>METAL GLAZE 4.</td><td>7K 5% 1/10W</td><td></td><td>CN1101</td><td>-1-105-097-00
</td><td>NECTOR></td><td>ARD TO ROAR</td><td>ภ.
ก. 12P</td><td>301</td></var<> | METAL GLAZE 4. | 7K 5% 1/10W | | CN1101 | -1-105-097-00
 | NECTOR> | ARD TO ROAR | ภ.
ก. 12P | 3 0 1 |
| RV502
RV503
RV504 | 1-238-019-11
1-241-631-11
1-241-763-11
1-224-250-XX
1-238-009-11 | METAL CHIP 82METAL GLAZE 4." IABLE RESISTOR> RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CERMET RES, ADJ, CARBON | 47K
22K
4.7K
GLAZE 2.2K
220 | | D1101 | <dio
8-719-404-46</dio
 | DE> | 110 Doing | | |
| RV507
RV508
RV509 | 1-241-627-11 | RES, ADJ, CARBON
RES, ADJ, CARBON
RES, ADJ, CARBON
RES, ADJ, CARBON
RES, ADJ, CARBON | 220K | | | (10) | | | | |
| RV512
RV514 | 1-241-629-11
1-238-019-11 | RES, ADJ, CARBON
RES. ADJ, CARBON | 4.7K | | | <00I | L> | | | |
| RV516
RV831
RV832 | 1-238-021-11
1-241-763-11
1-228-997-00
1-241-764-11 | RES, ADJ, CARBON
RES, ADJ, CERMET
RES, ADJ, METAL
RES, ADJ, CERMET | 220K
4.7K
GLAZE 100K | | L1101
L1102
L1103
L1104 | 1-408-411-00
1-404-496-00
1-404-496-00
1-408-411-00 | L> INDUCTOR COIL COIL INDUCTOR INDUCTOR INDUCTOR CHIP | 15UH
15UH
15UH | | |
| RV1601
RV1602 | 1-241-762-11 | RES, ADJ, METAL
RES, ADJ, CERMET
RES, ADJ, CARBON
RES, ADJ, METAL | 2.2K
2.2K
1K
GLAZE 47K | | L1111 | 1-412-008-31 | INDUCTOR CHIP | 15UH | | |
| | <rel< td=""><td>AY></td><td></td><td></td><td>01101</td><td></td><td></td><td>11162-C</td><td></td><td></td></rel<> | AY> | | | 01101 | | | 11162-C | | |
| RY1601 | | RELAY (G2R-212P-
NSFORMER> | V) | | Q1102
Q1103
Q1104 | 8-729-422-27
8-729-216-22
8-729-216-22 | TRANSISTOR 2S/
TRANSISTOR 2S/
TRANSISTOR 2S/
TRANSISTOR DTO | 0601A-Q
A1162-G
A1162-G | | |
| T1601 | 1-437-216-11 | TRANSFORMER, DRI | VE | | Q1106 | 8-729-901-01 | TRANSISTOR DT | | | |
| ****** | ******** | ****** | ******** | ****** | | | TRANSISTOR 2SI
TRANSISTOR 2SI | | | |
| * | A-1394-368-A | S BOARD, COMPLET | | | | <res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<> | ISTOR> | | | |
| C1101 | 1-163-119-00 | ACITOR> CERAMIC CHIP 120 | PF 5% | 50 V | R1102
R1103 | 1-216-053-00
1-216-067-00
1-216-059-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 1.5K 5%
5.6K 5%
2.7K 5%
10K 5%
180 5% | 1/10W
1/10W
1/10W
1/10W | |
| C1102
C1103
C1104 | 1-164-004-11
1-124-589-11
1-163-031-11 | CERAMIC CHIP 0.1 | MF 10%
F 20%
1MF | 25V
16V
50V
50V | R1105
R1106
R1107 | 1-216-031-00
1-216-059-00
1-216-071-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | | 1/10W
1/10W
1/10W | |
| C1106 | 1-163-101-00 | CERAMIC CHIP 22P
CERAMIC CHIP 0.1 | F 5% | 50V
50V
25V | R1108 | 1-216-039-00
1-216-063-00
1-216-069-00 | METAL GLAZE
METAL GLAZE | 2.7K 5%
8.2K 5%
390 5%
3.9K 5%
6.8K 5% | 1/10W
1/10W
1/10W
1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|--|---|--------------------------------------|----------------------|---|--------|
| R1111
R1112
R1113
R1114
R1115 | 1-216-065-00
1-216-059-00
1-216-069-00
1-216-055-00
1-216-061-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
2.7K
6.8K
1.8K
3.3K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1116
R1117
R1118
R1119
R1120 | 1-216-069-00
1-216-061-00
1-216-073-00
1-216-049-00
1-216-097-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 6.8K
3.3K
10K
1K
100K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1121
R1122
R1123
R1124
R1125 | 1-216-121-00
1-216-039-00
1-216-065-00
1-216-029-00
1-216-029-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1M
390
4.7K
150
150 | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1126
R1127
R1128
R1129
R1131 | 1-216-053-00
1-216-043-00
1-216-049-00
1-216-091-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1.5K
560
1K
56K
10K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1132
R1133
R1134 | 1-216-073-00
1-216-073-00
1-216-091-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 10K
10K
56K | 5%
5%
5% | 1/10W
1/10W
1/10W | |

<VARIABLE RESISTOR>

RV1101 1-241-629-11 RES, ADJ, CARBON 4.7K RV1102 1-241-628-11 RES, ADJ, CARBON 2.2K

<TRANSFORMER>

T1101 1-404-584-11 COIL

English 93AL0512-1 Printed in Japan

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Sony Corporation Display Products Group

PVM-9041QM/9044QM

SONY. SERVICE MANUAL

AEP Model

PVM-9041QM Chassis No. SCC-F09B-A PVM-9044QM Chassis No. SCC-F09A-A

SUPPLEMENT-3

File this supplement with the service manual.

INTRODUCTION

New Product, which have a changeover switch with both 16:9 and 4:3, has come from the following Serial Number.

| Model | Serial Number | | |
|------------|---------------------|--|--|
| PVM-9041QM | 2,500,001 and later | | |
| PVM-SU44QM | 2,500,001 and later | | |



SPECIFICATIONS

Video signal

Color system

PVM-9044QM/9041QM:

PAL, SECAM, NTSC, NTSC4.43

Resolution

PVM-9044QM: 450 TV lines

PVM-9041QM: 250 TV lines

Aperture correction -4.0 dB - +6.0 dB (at 3.0 MHz) Frequency response 6.0 MHz (-3.0 dB) at all inputs

Synchronization

AFC time constant 1.0 msec.

Picture performance

Normal scan

6% over scan of CRT effective screen

area

Underscan

3% underscan of CRT effective screen

area

H. linearity V. linearity Less than 7.0% (typical) Less than 7.0% (typical)

Convergence

Central area: 0.43 mm (typical)

......

Peripheral area: 0.53 mm (typical)

Raster size stability H: 1.0%, V: 1.5%

High voltage regulation

3.0% D65

Color temperature

Inputs and Outputs

inputs

Y/C IN: 4-pin mini DIN connector

(See the pin assignment on page 10.)

VIDEO IN: BNC connector

1Vp-p ± 6 dB, sync negative

AUDIO IN: phono jack, -5 dBs, less

than 47k ohms

R/R-Y, G/Y, B/B-Y: BNC connector R, G, B channels: 0.7 Vp-p, ±6 dB Sync on green: 0.3 Vp-p, negative, R-Y, Y, B-Y channels: 0.7 Vp-p, ±6 dB (Standard color bar signal of 100%

chrominance)

EXT SYNC IN: BNC connector Composite sync 4 Vp-p, ±6 dB,

negative

Loop-through outputs Y/C OUT: 4-pin mini DIN connector,

75 ohms terminated

VIDEO OUT: BNC connector, 75 ohms terminated AUDIO OUT: phono jack Output level 0.5 W

EXT SYNC OUT: BNC connector,

75 ohms terminated

Remote input

REMOTE: 8-pin mini DIN

connector (See the pin assignment

on page 10.)

General

Power consumption PVM-9044QM/9041QM

43 W at AC operation

40 W at DC operation

Power requirements 100 - 240 V AC, 50/60 Hz (for all

models)

12 V DC, with the Sony (NP-1A/1B) battery pack (not supplied) or AC-550/550CE AC power adaptor

(not supplied)

Operating temperature range

0 - 35°C

Storage temperature range

-10 - +40°C 0 - 90%

Humidity Dimensions

Approx. $217 \times 217 \times 352.5 \text{ mm (w/h/d)}$

(8<sup>5</sup>/8 × 8<sup>5</sup>/8 × 14 inches)

not incl. projecting parts and controls

Weight

Approx. 7.8 kg (17 lb 3 oz)

not incl. battery packs

Accessory supplied AC power cord (1)

Cable with an 8-pin connector (1)

AC plug holders (1 set)

Tally plate (1)

Design and specifications are subject to change without

notice.

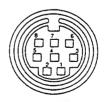
Pin Assignment

Y/C IN connector (4-pin mini DIN)



| Pin No. | Signal | Description |
|---------|------------------------------|---|
| 1 | Y-input | 1 Vp-p, sync negative,
75 ohms |
| 2 | CHROMA sub-carrier-
input | 300 mVp-p, burst
Delay time between Y
and C: within 0±100 nsec.,
75 ohms |
| 3 | GND for Y-input | GND |
| 4 | GND for CHROMA-
input | GND |

REMOTE connector (8-pin mini DIN)



| Pin No. | Signal | | |
|---------|-----------------------|--|--|
| 1 | Blue only | | |
| 2 | H/V delay | | |
| 3 | GND | | |
| 4 | INT/EXT SYNC | | |
| 5 | Tally | | |
| 6 | Underscan/normal scan | | |
| 7 | A/B or RGB/Y R-Y B-Y | | |
| 8 | RGB/LINE | | |

For remote control, connect the pin of the desired function to pin 3 (GND).

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SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

1-1. FEATURES

Four color systems available

(PVM-9044QM/9041QM only)

The monitor can display PAL, SECAM, NTSC and NTSC4.43" signals. The appropriate color system is selected automatically.

HR (High Resolution) Trinitron®2) picture tube

(PVM-9044QM only)

The HR Trinitron picture tube provides a high resolution picture. Horizontal resolution is more than 450 TV lines at the center of the picture.

Blue only picture

(PVM-9044QM/9041QM only)

The picture can be displayed in blue and black only. This facilitates hue adjustment and the observation of video noise.

Analog RGB/component input connectors

(PVM-9044QM/9041QM only)

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.

Y/C input connector

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

Comb filter

(PVM-9044QM/9041QM only)

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

Under scan 4:3/16:9 selector<sup>3)</sup>

(PVM-9044QM/9041QM only)

The monitor can display the 16:9 signal with the correct ratio of width and height, compressing the picture vertically. Selecting 16:9 with the UNDER SCAN 4:3/16:9 selector on the rear panel in the under scan mode changes the ratio of the picture to 16:9.

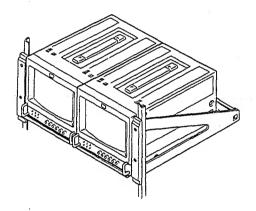
Automatic termination

(only connectors marked 43)

The Y/C, VIDEO IN and EXT SYNC IN<sup>4)</sup> connectors are terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

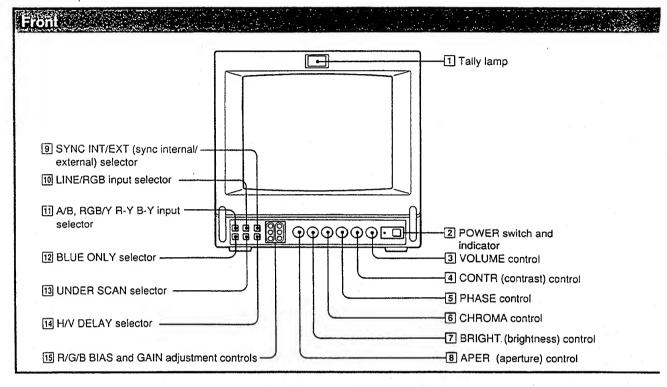
EIA standard 19-inch rack mounting

By using an MB-507 mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the MB-507.



- An NTSC4.43 signal is used for playing back NTSC-recorded video cassettes with a video tape recorder/player especially designed for use with this system.
- 2) Trinitron is a trademark of Sony Corporation.
- 3) The UNDER SCAN 4:3/16:9 selector and the wmark have been adopted since the serial No. 2500001 product.
- The EXT SYNC IN connector is provided with the PVM-9044QM/ 9041QM only.

1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS



- 1 Tally lamp
- 2 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

The POWER indicator also functions as the battery indicator. When the internal battery becomes weak or the power supplied through the DC12V IN jack decreases, the indicator flashes.

3 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

4 CONTR (contrast) control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

5 PHASE control

This control is effective only for the NTSC and NTSC4.43 color systems. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

6 CHROMA control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

[7] BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

8 APER (aperture) control

Turn clockwise for more sharpness and counterclockwise for less.

Notes

- The PHASE, CHROMA and APER control settings have no effect on an analog RGB signal.
- The PHASE control has no effect on component singals.
- . The PHASE control setting is effective only for the NTSC system.
- SYNC INT/EXT (sync internal/external) selector
 Keep this button released (INT) to operate the monitor
 on the sync signal from the displayed composite video
 signal.

Depress this button (EXT) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

10 LINE/RGB input selector

Select the program to be monitored. Keep this button released (LINE) for a signal fed through the LINE A or LINE B connectors. Depress this button (RGB) for a signal fed through the RGB connectors.

11 A/B, RGB/Y R-Y B-Y input selector

When the LINE/RGB input selector is set to LINE, keep this button released (A) for a signal fed through the LINE A connectors. Depress this button (B) for a signal fed through the LINE B connectors.

When the LINE/RGB input selector is set to RGB, select the RGB signal or the component signal which is fed through the RGB input connectors. Keep this button released (RGB) for the RGB signal. Depress this button (Y R-Y B-Y) for the component signal.

12 BLUE ONLY selector

Depress this button to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and the observation of video noise.

13 UNDER SCAN selector

Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

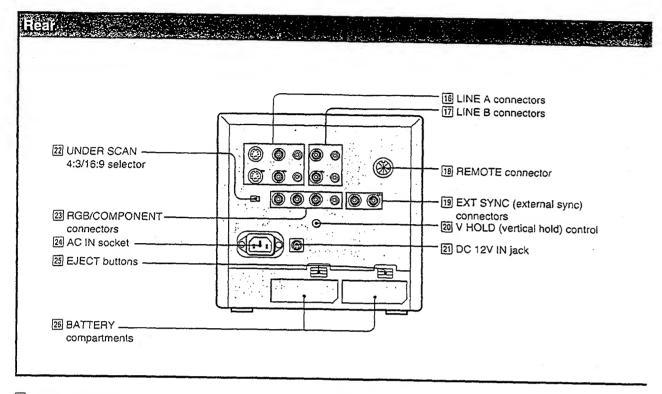
With this buton depressed, if the UNDER SCAN 4:3/16:9 selector on the rear panel is set to 16:9, the ratio of the picture changes to 16:9.

14 H/V DELAY selector

Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

- IS R/G/B BIAS and GAIN adjustment controls
 Used for white balance fine adjustment.
 BIAS and GAIN controls are provided for the R (red),
 G (green) and B (blue) screens.
 - BIAS: Adjust the white balance and brightness of the screen at the lowlight.
 - GAIN: Adjust the white balance and brightness of the screen at the highlight.

4



16 LINE A connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector and the A/B, RGB/Y R-Y B-Y selector on the front panel released (LINE and A).

17 LINE B connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector released (LINE) and depress the A/B, RGB/Y R-Y B-Y selector on the front panel (B).

VIDEO IN (BNC): Connect to the video output of a video camera, VCR or other video equipment.

VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.

AUDIO IN (phono jack): Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

REMOTE connector (8-pin mini DIN)

Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can be used for connecting a remote controller. For the pin assignment of this connector, see "Specifications" on page 10.

Note:

The Y/C IN connector has a priority over the VIDEO IN connector.

When a plug is connected to the Y/C IN connector, the VIDEO IN connector is automatically disconnected.

6

19 EXT SYNC (external sync) connectors

IN (BNC): When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector. In this case, depress the SYNC INT/EXT selector on the front panel (EXT).

OUT (BNC): Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

V HOLD (vertical hold) control Turn to stabilize the picture if it rolls vertically.

21 DC 12V IN jack (XLR, 4 pin)
Connect the Sony AC-550/550CE AC power adaptor (not supplied).

22 UNDER SCAN 4:3/16:9 selector

Set to compress the picture vertically to monitor the 16:9 input signal with the correct ratio.

The function of the UNDER SCAN button on the front panel is changed by the position of this selector.

| UNDER SCAN
button
4:3/16:9
selector | Not depressed
(瓜) | Depressed |
|--|--|--|
| When the selector is set to 4:3 | The 4:3 input signal is monitored with overscanning. | The 4:3 input signal is monitored with underscanning. |
| When the selector is set to 16:9 | The 4:3 input signal is monitored with overscanning. | The 16:9 input signal is monitored with underscanning. (Compressed vertically) |

The UNDER SCAN 4:3/16:9 selector has been adopted since the serial No. 2500001 product.

23 RGB/COMPONENT input connectors

R/R-Y, G/Y, B/B-Y (BNC), AUDIO (phono):
To monitor a signal fed through these connectors, depress the LINE/RGB selector on the front panel (RGB). When the SYNC INT/EXT selector on the front panel is released (INT), the monitor operates on the sync signal from the G/Y channel.

To monitor the analog RGB signal Connect to the analog RGB signal outputs of a video camera. Keep the A/B, RGB/Y R-Y B-Y selector on the front panel released (RGB).

To monitor the component signal Connect to the R-Y/Y/B-Y component signal outputs of a Sony BetaCam video camera. Depress the A/B, RGB/Y R-Y B-Y selector on the front panel (Y R-Y B-Y).

24 AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

EJECT buttons Press the EJECT button upwards to remove the battery pack.

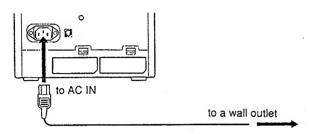
26 BATTERY compartments
Insert the NP-1A/1B battery pack (not supplied).

7

1-3. POWER SOURCES

House Current (for all models)

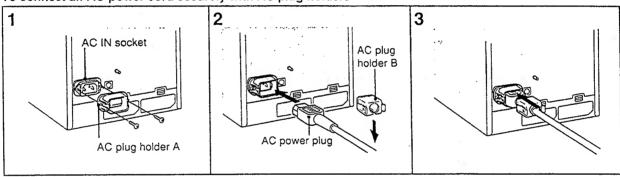
Connect the supplied AC power cord to the AC IN socket and to a wall outlet.



For the PVM-9044QM/9041QM

When the AC power cord is plugged into the AC IN socket, the battery pack (if installed) or the AC power adaptor (if connected) is automatically disconnected.

To connect an AC power cord securely with AC plug holders



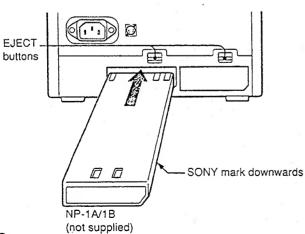
- 1 Remove the AC IN socket screws and then use them to attach the AC plug holder A (supplied) to the AC IN socket.
- 2 Plug the power cord to the AC IN socket. Then, attach the supplied AC plug holder B on top of the AC power cord.
- 3 Slide AC plug holder B over the cord until it locks.

To remove the AC power cord

Pull out AC plug holder B by squeezing the left and right sides.

Rechargeable Battery (PVM:90440M/90410M 6Hly)

The monitor can operate with one or two battery packs. For extended use, two battery packs are recommended.



To remove the battery pack, press the EJECT button upwards.

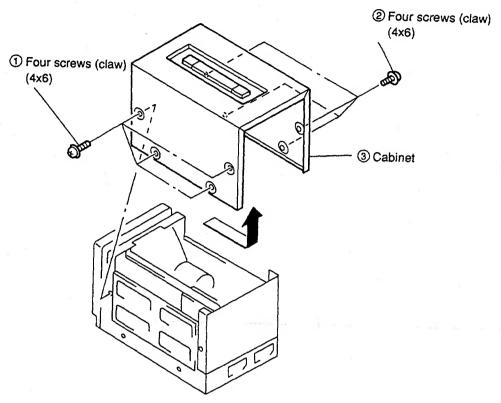
For charging, use the BC-1WA battery charger (not supplied) for the NP-1A or the BC-1WB for the NP-1B.

Note

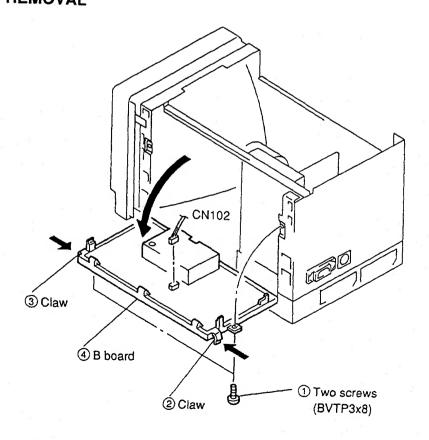
Make sure that the AC power cord and the AC power adaptor are disconnected from the monitor. Otherwise, the monitor cannot operate on the battery pack(s).

SECTION 2 DISASSEMBLY

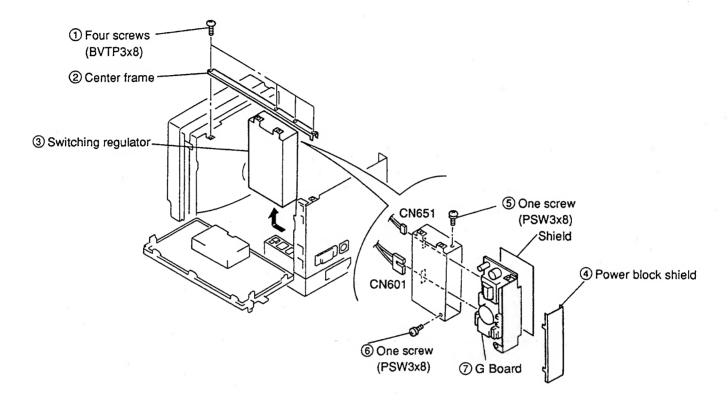
2-1. CABINET REMOVAL



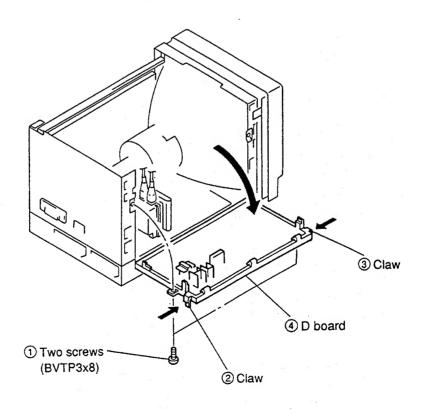
2-2. B BOARD REMOVAL



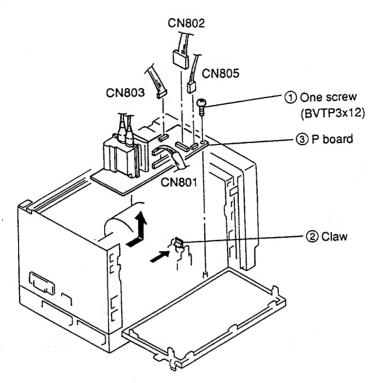
2-3. SWITCHING REGULATOR REMOVAL



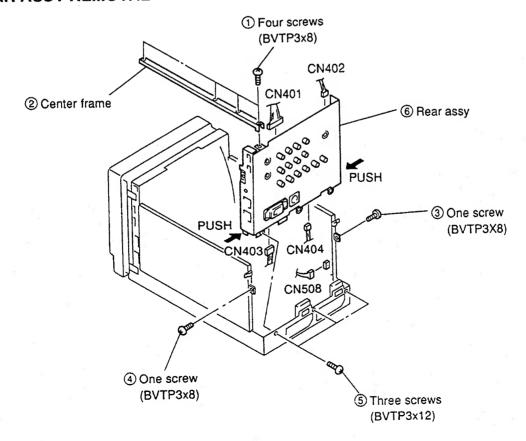
2-4. D BOARD REMOVAL



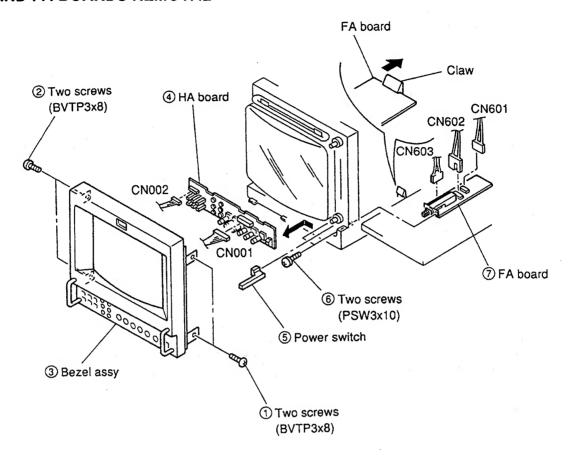
2-5. P BOARD REMOVAL



2-6. REAR ASSY REMOVAL



2-7. HA AND FA BOARDS REMOVAL



2-8. PICTURE TUBE REMOVAL

Note: Caution for ANODE CAP installation.

When you replace PICTURE TUBE or FBT, remove RTV on ANODE CAP so that PICTURE TUBE and FBT can be separated. Please adhere picture tube and anode cap in accordance with the following procedure.

ADHERING PROCEDURE OF ANODE CAP.

- Clean PICTURE TUBE ANODE CAP with ethnaol to remove original RTV.
- 2. Dry clean face with air.

 Use KE-490RTV (RTV silicone adhesive, SHIN-ETSU CHEMICAL).

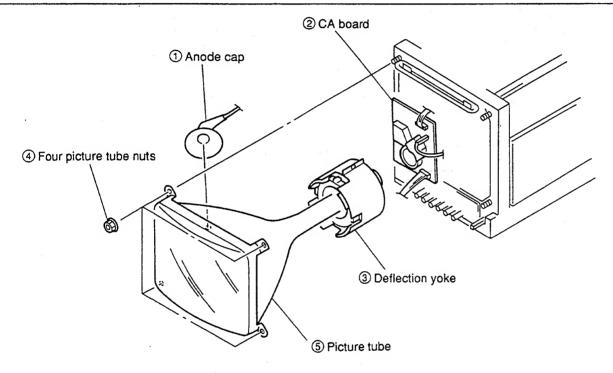
Part. No.

Description

7-322-065-19

Silicone (RTV) KE-490W

- 4. Install ANODE CAP.
- 5. Adequately apply RTV to the entire picture tube anode area, piace the anode cap onto the picture tube and push it down securety so that no air pockets remain beneath the cap.
- 6. Dry more than 12 hours at room temperature.

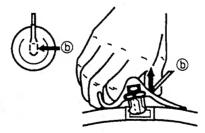


REMOVAL OF ANODE-CAP

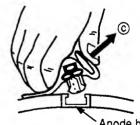
REMOVING PROCEDURES



1 Turn up one side of the rubber cap in the direction indicated by the arrow a.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

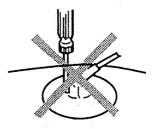


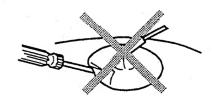
Anode button

When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow .



- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
 A metal fitting called as shatter-book terminal is built
 - A metal fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly!





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

| CONTRAST control | .80% |
|--------------------|------|
| BRIGHTNESS control | .50% |

Perform the adjustments in order as follows:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

Note: Test equipment Required.

- 1. Color Bar/Pattern Generator
- 2. Degausser
- 3. Color Analyzer (Minolta)
- 4. Luminance Level Meter

3-1. BEAM LANDING

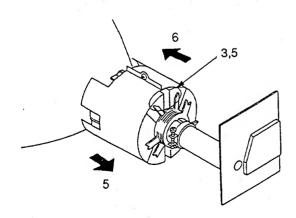
Precaution

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- 2. Turn the power switch for the unit ON and erase the magnetic force using a degausser.

(1) Beam Landing

- 2. Adjust the white balance, G2 voltage and convergence roughly.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.3-1.
- 4. Switch over the pattern generator to green.
- 5. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig.3-2)
- 6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
- 7. When landing at the corners is not right, correct by using the magnet. (Fig. 3-3)
- 8. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

CAUTION: When correction magnet is used, be sure to degauss the unit.



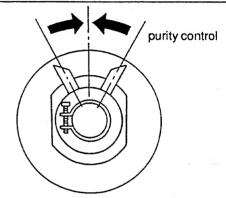


Fig.3-1

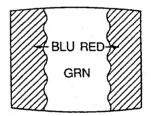
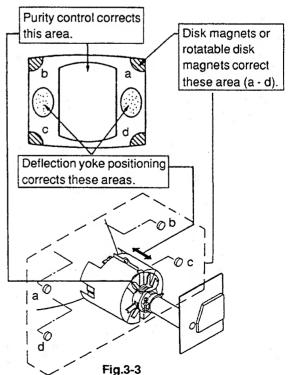


Fig.3-2

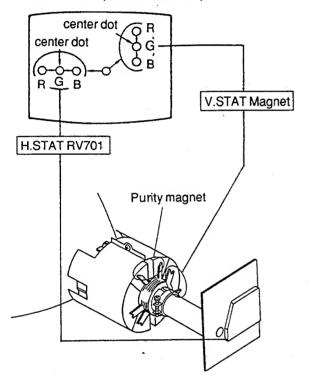


3-2. CONVERGENCE

- (1) Horizontal and vertical Static Convergence Adjustment on the Center of Screen.
- Before starting, perform V. SIZE, V. CENT, H.SIZE, H.CENT and Screen Distortion Adjustment rightly.

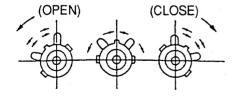
(Static Convergence Adjustment)

- Receive a dot signal, setting BRIGHTNESS minimum and set CONTRAST to normal.
- 2. Adjust H.STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)

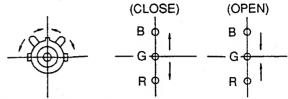


\* If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform adjustment using V.STAT at the same time while tracking.

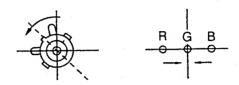
(Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.)



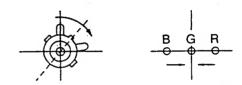
- 4. When the V.STAT magnet is moved in the direction of arrow A and b, red, green and blue dots move as shown below.
- When moving the V.STAT Magnet open or close.



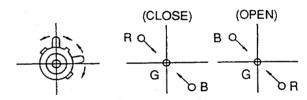
2 When moving the V.STAT magnet counterclockwise.



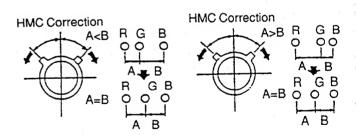
3 When moving the V.STAT magnet clockwise.



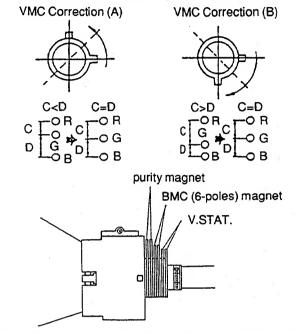
4 When tilt the V.STAT magnet and open or close.



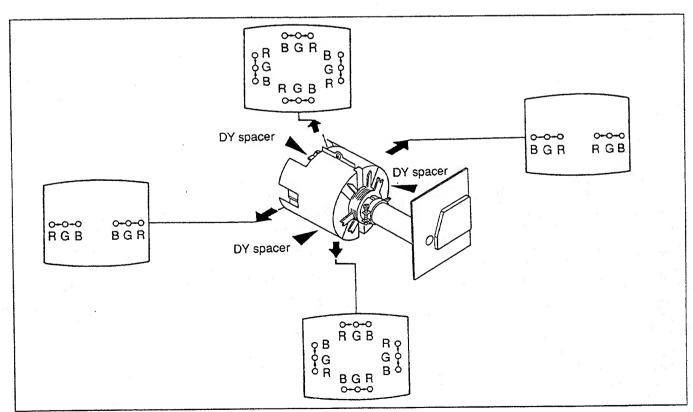
- \* If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.
- 5. HMC and VMC correction for BMC (6-Poles) magnet.
- 1 HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



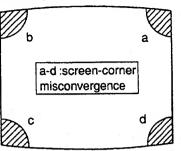
2 VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

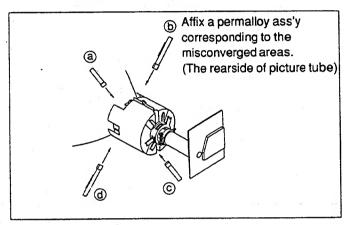


- (2) Horizontal and Vertical Dynamic Convergence Adjustment at the Environs of the Screen (Dynamic Convergence Adjustment)
- 1. When there is misconvergence at the sides of screen, adjust for best 2. Loosen deflection yoke screw. Remove deflection yoke spacers. convergence as follows by moving the deflection yoke.
 - Move the deflection yoke for best convergence. Tighten the deflection yoke screw. Install three deflection yoke spacers.



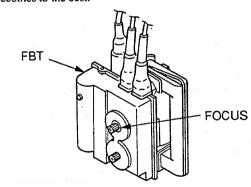
Screen-corner Convergence





3-3. FOCUS

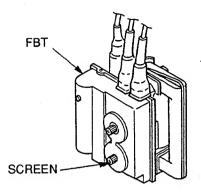
- 1. Receive a monoscope signal.
- 2. CONTRAST → Normal
- 3. Adjust FOCUS control so that the focus on the center of screen becomes to the best.



3-4. WHITE BALANCE

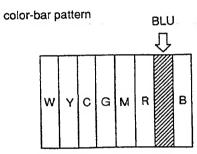
[Screen (G2) Voltage Adjustment]

- 1. Receive a dot signal with the pattern generator.
- 2. Adjust R. G. B cut-off controls so that respective cathode voltage against ground becomes 103V DC.
- 3. Observing the screen, adjust SCREEN control so that the background of the dot signal is bright dimly.



(White Balance)

- 1. Receive a color-bar pattern signal with the pattern generator. (Make black and white screen by chroma switch off.)
- 2. BRIGHTNESS50%
 - CONTRASTMinimum
 - CHROMA50%
 - DRIVE control Mechanical center
 - BKG control.....Mechanical center
- 3. Adjust RV118 (SUB BRT) on B board so that the blue stripe portion on the color-bar pattern signal is bright dimly.



- Receive an entirely white signal from the pattern generator.
- CONTRAST70% (90 degree clockwise from mechanical center.)
- 6. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 3 Nits. (The condition the screen is bright dimly.)
- Adjust white balance at cut-off using RV119 (G-C/O) and RV121
- Change the all-white signal luminance level to 100 IREs.
- Adjust white balance at high-light using RV120 (G-GAIN) and RV121 (B-GAIN).
- 10. Change the unit to blue ONLY mode.
- 11. Adjust white balance (at high-light) in blue ONLY mode using RV124\*R-GAIN/BL) and RV125 (G-GAIN/BL).
- 12. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 8 Nits. Confirm that white balance at cut-off is satisfactory..

SECTION 4 SAFETY RELATED ADJUSTMENT

4-1. SAFETY RELATED ADJUSTMENTS

B+ ADJUSTMENT AND B+ MAX CHECK FOR SERVICING (☑ RV651)

The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

on G board: (Power supply block)
IC601, IC651, PH601, C654, R653, R655, R656, R657, RV651.

- 1. Input the AC power supply voltage 240V<sup>+1</sup><sub>-0</sub>V.
- 2. Input the monoscope signal.
- 3. Set as follows.
 - CONTRAST80%
 - BRIGHTNESS.....50%
- 4. Connect the digital multimeter to RY1601 pin-7 on the D board.
- Adjust RV651 on the G board so that the +B voltage becomes 40.0 ± 0.1V.
- 6. After adjusting RV651, fix it with an epoxy.
- 7. Input the AC power supply voltage $240V_{-0}^{+1} V$.
- 8. Input the dot signal.
- 9. Set as follows.
 - CONTRAST Minimum
 - BRIGHTNESS Minimum
- 10. Check that the B+ voltage is below 41.9V. If it is above this value, repeat from step 1.

B+ MAX IN DC POWER INPUT MODE, CONFIRMATION (☑ RV1603)

The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

on D board:

Q1601, Q1602, Q1603, D1601, D1602, D1603, D1622, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1601, RV1603.

- 1. Supply DC 12V +0.4 V from DC 12V IN connector.
- 2. Receive a dot signal.
- 3. CONTRASTMinimum
 - BRIGHTNESS Minimum
- 4. Connect a digital multimeter to C1605 positive + side of D board.
- Turn RV1601 on the D board fully clockwise. Confirm that the voltage of C1605 + pin is less than 41.9V DC.
- 6. If step 5 is not satisfied, readjust the RV1603. After adjusting, fasten RV1603 in place with epoxy.

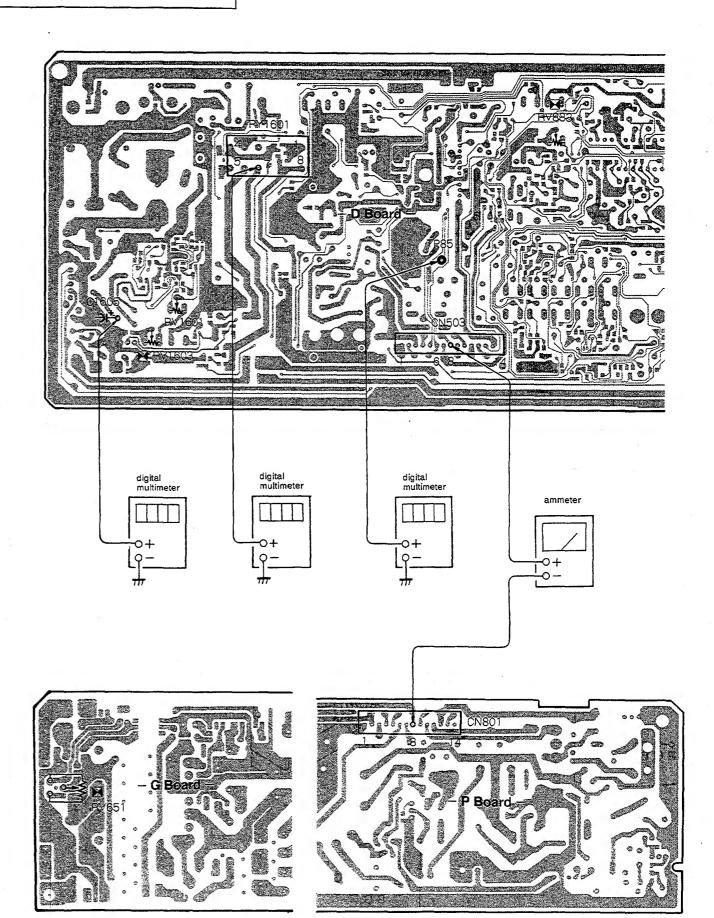
HOLD-DOWN CIRCUIT CONFIRMATION (☐ RV833) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with \square on the schematic diagram).

on D board

IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863.

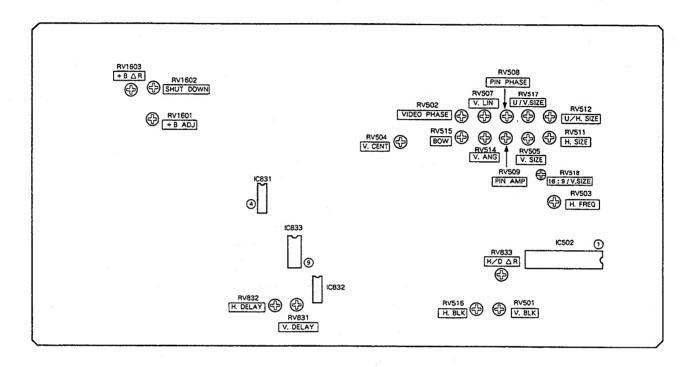
- on P board: C814, NL801, T802 (FBT)
- Receive an entire white signal.
 CONTRAST.......Maximum
 - BRIGHTNESS Maximum
- 3. Connect a digital multimeter to the TP85 (CN503 pin-6).
- 4. Confirm the voltage is 14.1 ± 3.0 V DC.
- 5. Receive a dot signal.
- Connect an ammeter between D board CN503 pin-8 and P board CN801 pin-8.
- 7. Adjust BRIGHTNESS and CONTRAST so that the current is $IABL = 160 \pm 30 \mu A$.
- Apply an external DC voltage gradually to TP85. When the voltage becomes 18.5V ± 0.1V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- When external DC voltage at TP85 becomes 17.5V ± 0.1V DC, confirm the HOLD-DOWN circuit doesn't operate.
- 10. Receive an entire white signal.
- 11. Adjust with BRIGHTNESS and CONTRAST controls so that the current is IABL = $520 \pm 30 \mu A$.
- 12. Apply DC voltage of 17.8V \pm 0.1V to TP85. Confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- With the same set-up as steps 10 and 11, supply 16.8V± 0.1V DC to TP85. Confirm that the HOLD-DOWN circuit doesn't operate.
- 14. When above specifications are not satisfied, readjust RV833. After adjusting, fasten RV833 in place with epoxy.



SECTION 5 CIRCUIT ADJUSTMENTS

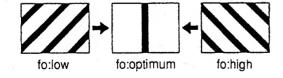
5-1. D BOARD ADJUSTMENTS

-D BOARD (COMPONENT SIDE)-



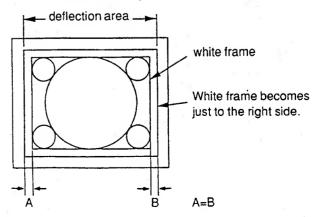
HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV503)

- 1. Receive a monoscope signal.
- 2. Connect pin-① of IC502 to ground with 100μF/16V electrolytic capacitor.
- 3. Adjust RV503 (H.FREQ) so that the screen streaming to stops.



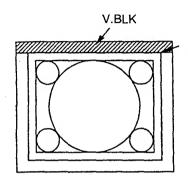
SCREEN PHASE ADJUSTMENTS (RV502, RV512, RV516)

- 1. Receive a monoscope signal.
- Set U/S (Under Scan) switch to Under mode. Set U/S 4:3/16:9 SW to 4:3 mode.
- 3. CONTRAST Minimum
 - BRIGHTNESS Maximum.
- 4. Adjust RV512 (U/H. SIZE) so that the white frame of monoscope signal becomes visible.
- Adjust RV516 (H.BLK) for minimum BLKG width so that all the deflection area becomes visible.
- 6. Adjust RV502 (VIDEO PHASE) so that the monoscope's white frames should have equal width.



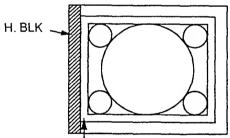
H.V BLK ADJUSTMENTS (RV501,RV516)

- 1. Receive a monoscope signal.
- Set U/S (Under Scan) switch to Under mode. Set U/S 4:3/16:9 SW to 4:3 mode.
- 3. CONTRAST Minimum
 - BRIGHTNESS Maximum.
- 4. V. BLK Adjustment (RV501)
- (l) Adjust RV501(V. BLK) so that the upper side white frame of monoscope signal is not blanked.



Make not to blank the upper side white frame of monoscope signal.

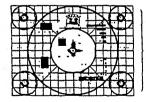
- 5. H. BLK Adjustment (RV516)
- (l) Adjust with RV516 (H. BLK) so that the left end white vertical line of the white frame of monoscope signal is not blanked as following figure.



Make not to blank the left end white vertical line of the white frame of monoscope signal.

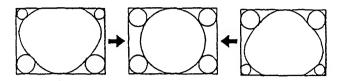
VERTICAL DEFLECTION PART ADJUSTMENTS (RV504, RV505, RV507, RV517, RV518)

- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS......50%
- 3. Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.

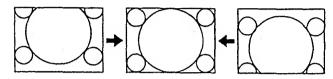


12 frames

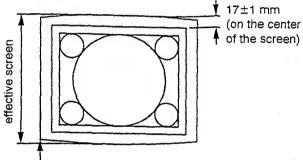
4. Adjust RV507 (V.LIN) the vertical linearity.



5. Adjust RV504 (V. CENT) the vertical position.



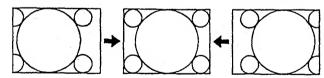
- 6. 16:9/V.SIZE ADJUSTMENT (RV518)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Set 16:9/4:3 switch to 16:9 mode.
- (3) Adjust the 16:9/V.SIZE with RV518 (16:9/V.SIZE) as follows.



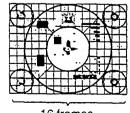
Screen is not wane on the four corners.

HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV508, RV509, RV511, RV514, RV515, RV801/P board)

- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS 50%
- 3. H. CENT Adjustment (RV801 on P board)
- (1) Adjust RV801 on P board (H. CENT) the horizontal position.



- 4. H. SIZE Adjustment (RV511)
- (1) Adjust RV511 (H. S1ZE) the horizontal size of 16 frames of monoscope signal.

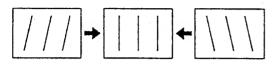


16 frames

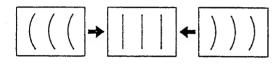
5. PIN AMP. PIN PHASE, V. ANG, BOW ADJUSTMENTS (RV508 RV509, RV514, RV515)

Adjust RV514 (V. ANG) and RV515 (BOW) to correct vertical angular distortion and bow distortion. Adjust RV509 (PIN AMP) and RV508 (PIN PHASE) so that vertical lines become straight.

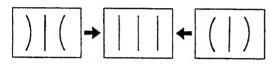
V. ANG (RV514)



BOW (RV515)



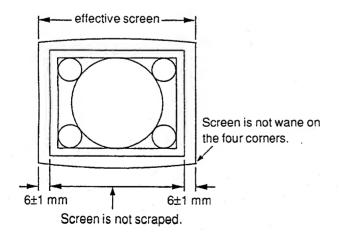
PIN AMP (RV509)



PIN PHASE (RV508)

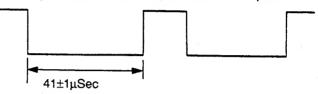


- 6. H. SIZE ADJUSTMENT (RV511)
- (1) Adjust RV511 (H. SIZE) so that the horizontal size becomes 16 ± 0.2 frames.
- 7. UNDERSCAN MODE H.SIZE ADJUSTMENT (RV512)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust RV512 (U/H. SIZE) the Under H. SIZE as shown in the figure.

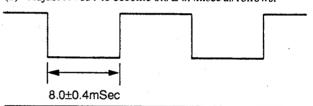


HVDELAY ADJUSTMENT (RV831, RV832)

- 1. Receive a monoscope signal.
- 2. CONTRAST70%
 - BRIGHTNESS50%
- 3. Set H V DELAY switch to DELAY mode.
- 4. H. DELAY Adjustment (RV832)
- (1) Connect an oscilloscope to pin-4 of IC831.
- (2) Adjust RV832 (H. DELAY) to becomes 41 ± 1 µsec.



- 5. V. DELAY Adjustment (RV831)
- (1) Connect an oscilloscope to pin-9 of IC833.
- (2) Adjust RV831 to become 8.0 ± 0.4 msec as follows.



SHUT-DOWN VOLTAGE ADJUSTMENT (RV1602)

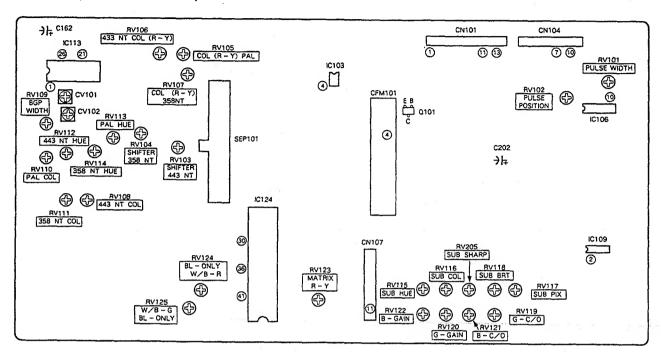
- 1. Fully rotate RV1602 in the direction that does not shut-down.
- 2. Supply a 9.4V <sup>+0.1</sup>V voltage to the C1602 side of L1602 on the D board.
- 3. Turn AC power switch ON.
- 4. Rotate D board RV1602 (SHT DOWN) slowly to the point that shuts-down the unit.

B+ VOLTAGE DURING DC OPERATE MODE, ADJUSTMENT (RV1601)

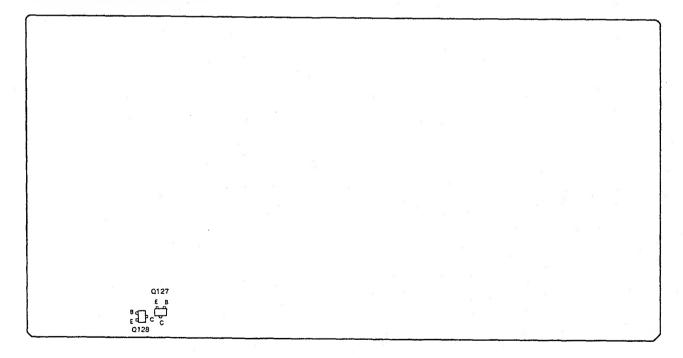
- 1. Supply DC12V±0.2V to DC 12V IN connector.
- 2. Receive a monoscope signal.
- 3. CONTRAST80%
 - BRIGHTNESS50%
- 4. Connect a digital voltmeter to C1605 + positive side on D board.
- 5. Adjust RV1601 on the D board for 40.0±0.1V DC.

5-2. B BOARD ADJUSTMENT

-B BOARD (COMPONENT SIDE)-

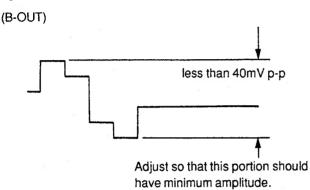


-B BOARD (CONDUCTOR SIDE)-

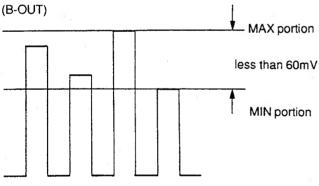


PRIMARY COLOR MATRIX ADJUSTMENT (RV115, RV116, RV123)

- Supply component color bar signal (75% drroma color bar) to the equipment so that Y signal is supplied to EXT SYNC and R-Y signal to R-Y connectors Operate the equipment in external sync mode.
- 2. Connect oscilloscope to IC124 pin-3 (B-OUT).
- Adjust RV115 (SUB HUE) to obtain the Blue output as shown in figure.

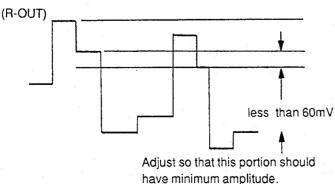


- 4. Supply component color bar signal (75% color bar) to the component input connector to feed R-Y and B-Y signals. Operate the equipment in internal SYNC mode.
- Connect oscilloscope to IC124pin- (SUB-COL). Adjust RV116 (SUB-COL) so that waveform peaks should have the same level.



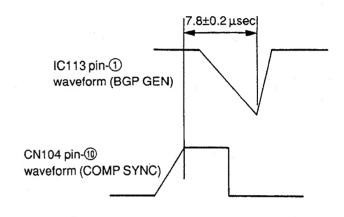
(Adjust so that the first and the 4th peaks should have the same level.)

- 6. Connect oscilloscope to IC124 pin-(1) (R-OUT).
- 7. Adjust RV123 ((R-Y)-IN) so that waveform peaks should have the same level.



BURST GATE PULSE WIDTH ADJUSTMENT (RV109)

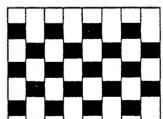
- 1. Receive color bar signal.
- Connect dual trace oscilloscope to CN104 connector pin-10 (COMP-SYNC) and IC113 (M51279) pin-10 (BGP-WIDTH).
 Adjust RV109 (BGP-WIDTH) to obtain the relationship as shown in the figure.



VXO ADJUSTMENT (CV101, CV102)

- 1. 3.58MHz VXO adjustment (CV101)
- (1) Receive NTSC color bar signal.
- (2) Connect +5V power line to IC113 pin-<sup>®</sup> (ID-FILT-REF) via a 4700Ω resistor.
- (3) Ground IC109 pin-2 by connecting it to ground.
- (4) Ground C162 negative side by connecting it to ground.
- (5) Connect frequency counter to IC113 pin-②. Adjust CV101 (358FO) for 3579545±20Hz.
 (This adjustment can be alternatively done by observing screen as below.)

Adjust color synchronization by CV101 (358FO).



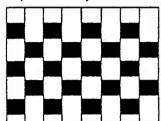
Adjust so that color stripes disappear and the hue change is stabilized extremely.

PVM-9041QM/9044QM

- 2. 4.43MHz VXO adjustment (CV102)
- (1) Receive PAL colour bar signal.
- (2) Connect +12V power line to IC109 pin-2.
- (3) Connect frequency counter to IC113 pin-②. Adjust CV102 (443FO) for 4433619±20Hz.

 (This adjustment can be alternatively done by observing screen as

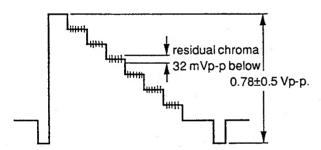
Adjust colour synchronization by CV102(443FO).



Adjust so that colour stripes disappear and the hue change is stabilized extremely.

NTSC COMB FILTER ADJUSTMENT (RV1,T1/CFM101 BOARD)

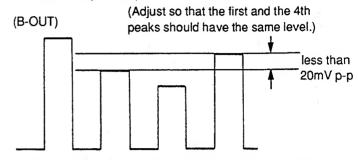
- 1. Receive NTSC 3.58 color bar signal.
- 2. Connect an oscilloscope to C202 negative side.
- 3. Confirm the Y OUT is 0.78±0.5 Vp p.
- Confirm the residual chroma is 32 mVp-p below. If it is above 35 mVp-p, adjust with RV1 and T1 on CFM101 board while tracking



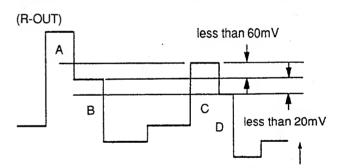
NTSC COLOR DEMODULATION ADJUSTMENT (RV114,RV111,RV104,RV107)

- 1. NTSC 3.58MHz HUE adjustment (RV114)
- (1) Supply NTSC color bar signal including burst and R-Y component. (For example, Tektronix 1410SG output color bar signal with B-Y component removed.)
- (2) Connect an oscilloscope to Q128 emitter (B-Y OUT).
- (3) Adjust RV114 (358NT HUE) so that all the waveform peaks should have equal amplitude (look flat) except burst. (Level difference should be less than 10mV p-p.)

- 2. NTSC 3.58MHz COLOR adjustment (RV111)
- (1) Receive NTSC 3.58 color bar signal.
- (2) Connect an oscilloscope to IC124 pin-39 (B-OUT).
- (3) Adjust RV111(358NT-COL) so that waveform peaks should have the same level (most flat).



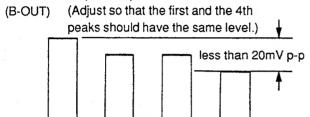
- 3. NTSC 3.58MHz COLOR (R-Y) adjustment (RV104, RV107)
- (1) Receive the color bar signal.
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV104 (358NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin- (R-OUT). Adjust RV107 (358NT-COL (R-Y)) so that the level difference should be minimum.



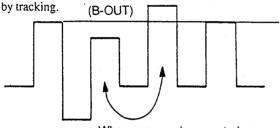
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

NTSC 4.43MHZ COLOR DEMODULATION ADJUSTMENT (RV108,RV112,RV103,RV106)

- 1. NTSC 4.43MHz COLOR adjustment (RV108,RV112)
- (1) Receive NTSC 4.43 color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-3 (B-OUT).
- (3) Adjust RV108 (443NT-COL) so that waveform peaks should have the same level (most flat).

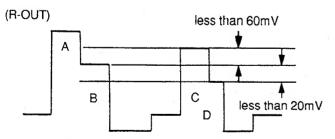


(4) When cyan and magenta have level difference, adjust RV112 (443NT-HUE) and RV108 (443NT-COL) alternatively to remove,



When cyan and magenta have level difference, adjust RV112 and RV108 alternatively to remove.

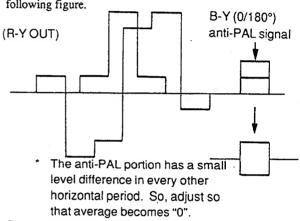
- 2. NTSC 4.43MHz COLOR (R-Y) adjustment (RV103, RV106)
- (1) Receive the NTSC 4.43 color bar signal (75%, chroma color bar).
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV103(443NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connectan oscilloscope to IC124 pin-41 (R-OUT). Adjust RV106 (443NT-COL (R-Y)) so that the level difference should beminimum.



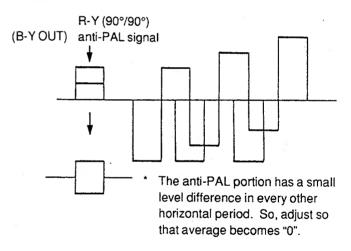
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

PAL COLOR DEMODULATION ADJUSTMENT (RV113, RV2/SEP101, RV110, RV105)

- 1. PAL PHASE Adjustment (RV113,RV2/SEP101)
- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q127 (R-Y OUT).
- (3) Adjust RV113 (PAL-PHASE) so that B-Y (0/180°) anti-PAL portion (in the R-Y demodulated output) becomes "0" (flat) as following figure.



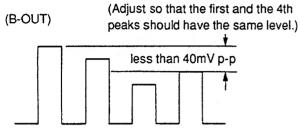
- (4) Connect an oscilloscope to emitter of Q128 (B-Y OUT).
- (5) Adjust RV2 inside SEP101 so that R-Y (90°/90°) anti-PAL portion (in B-Y demodulated output) becomes "0" (flat) as following figure.



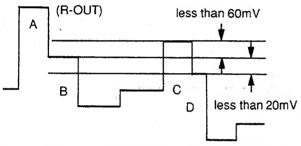
For the adjustments of (3) and (5), it is also possible to set the color level to MAX with the chroma adjusting knob of the unit and erase the color of the anti-pal signal section.

PVM-9041QM/9044QM

- 2. PAL COLOR ADJUSTMENT (RV110)
- (1) Receive PAL color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-30 (B-OUT).
- (3) Adjust RV110 (PAL-COL) so that waveform peaks should have the same level (most flat).



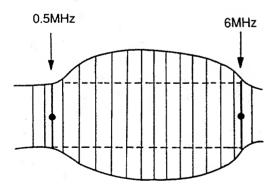
- 3. PAL-COLOR-(R-Y) ADJUSTMENT (RV105)
- (1) Connect an oscilloscope to IC124 pin-40 (R-OUT).
- (2) Adjust RV105 (PAL-COL-(R-Y)) so that waveform peaks should have the same level (most flat).



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

SUB-SHARP ADJUSTMENT (RV205)

- (1) Receive a sweep signal (or multi-burst).
- Bandwidth should be more than 10MHz (flat).
 - Composite sync should be included.
 - Turn burst off.
- (2) Connect an oscilloscope to IC124 pin-36 (G-OUT).
- (3) Adjust RV205 (SUB-SHARP) as shown.



Example of sweep signal output waveform

[specification] 6MHz/0.5MHz=0±0.5dB

CHROMA H PULSE POSITION ADJUSTMENT (RV101,RV102)

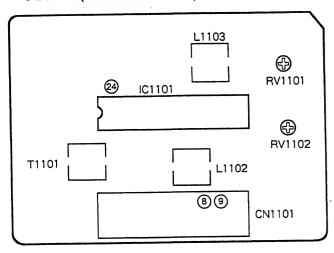
- (1) Receive the SECAM color bar signal.

 (The left edge of the screen should not be colored.)
- (2) Set to the under-scan mode.
- (3) Adjust RV101 (PLUSE-WIDTH) until the point immediately before the color on the left edge of the screen disappears.
- (4) Release the under-scan mode.
- (5) Set the HV DELAY mode.
- (6) Adjust RV102 (PULSE-POSI) untill the point immediately before the rising color of the image after back porch diappears.

Note: If image phase adjustment or HV DELAY amount adjustment during HV DELAY is performed after completing the adjustment in this section, re-adjustments will be required. Therefore, performed this adjustment after the two mentioned have been performed.

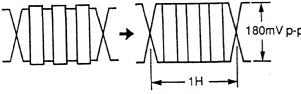
5-3. S BOARD ADJUSTMENTS

-S BOARD (COMPONENT SIDE)-



SECAM (T1101,L1102,L1103)

- 1. Receive SECAM color-bar.
- 2. Bell Filter Adjustment (T1101)
- (l) Connect an oscilloscope to IC1101 pin-2.
- (2) Adjust T1101 (Bell Filter) so that the chroma waveform becomes smooth. (Uneven level should be minimum.)



- 3. Color Balance Adjustment (L1102,L1103)
- (1) Connect an oscilloscope to pin-(9) (R-Y) of CN1101 connector.
- (2) Adjust L1102 (R-Y) so that the non-colored portion level becomes



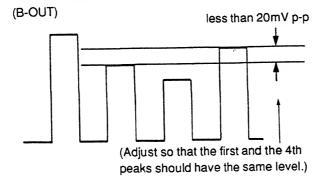
- (3) Connect an oscilloscope to pin-® (B-Y) of CN1101 connector.
- (4) Adjust L1103 (B-Y) so that the non-colored portion level becomes flat.



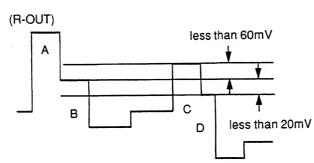
(5) When adjusting the color level of the unit to MAX or MIN using the chroma adjusting knob, check that the white balance of the colorless section does not change.

DEMODULATIONLEVEL ADJUSTMENT (RV1101, RV1102)

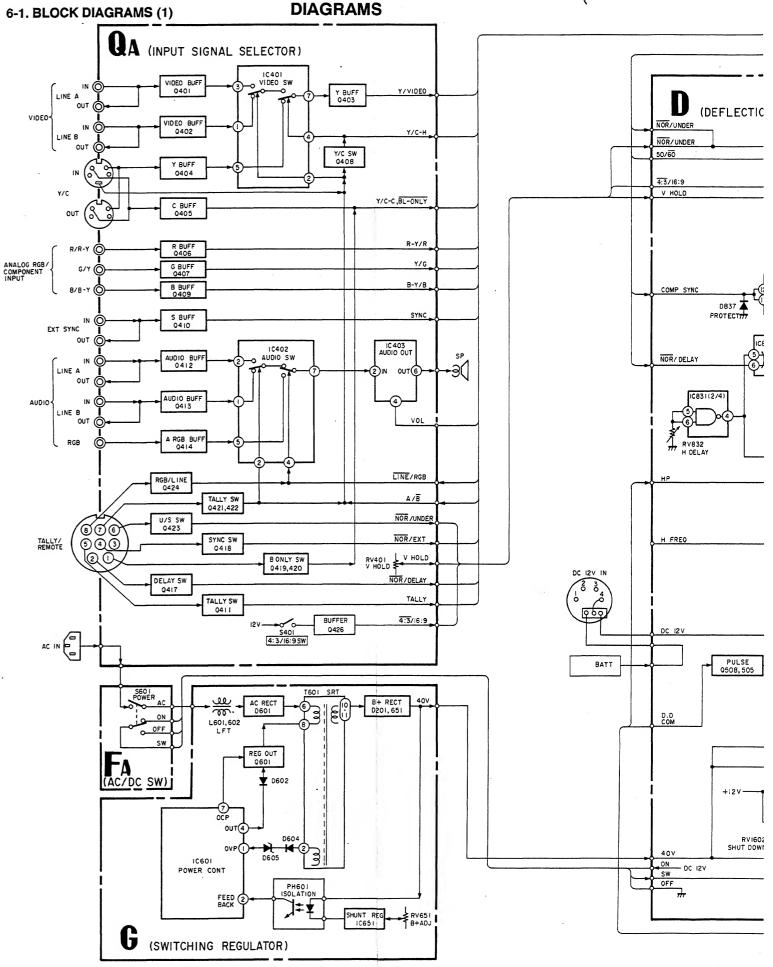
- 1. Receive SECAM color-bar.
- 2. Connect an oscilloscope to IC124 pin-3 (B-OUT).
- 3. Adjust S board RV1101 (SEC-COL) so that waveform peaks should have the same level (most flat).



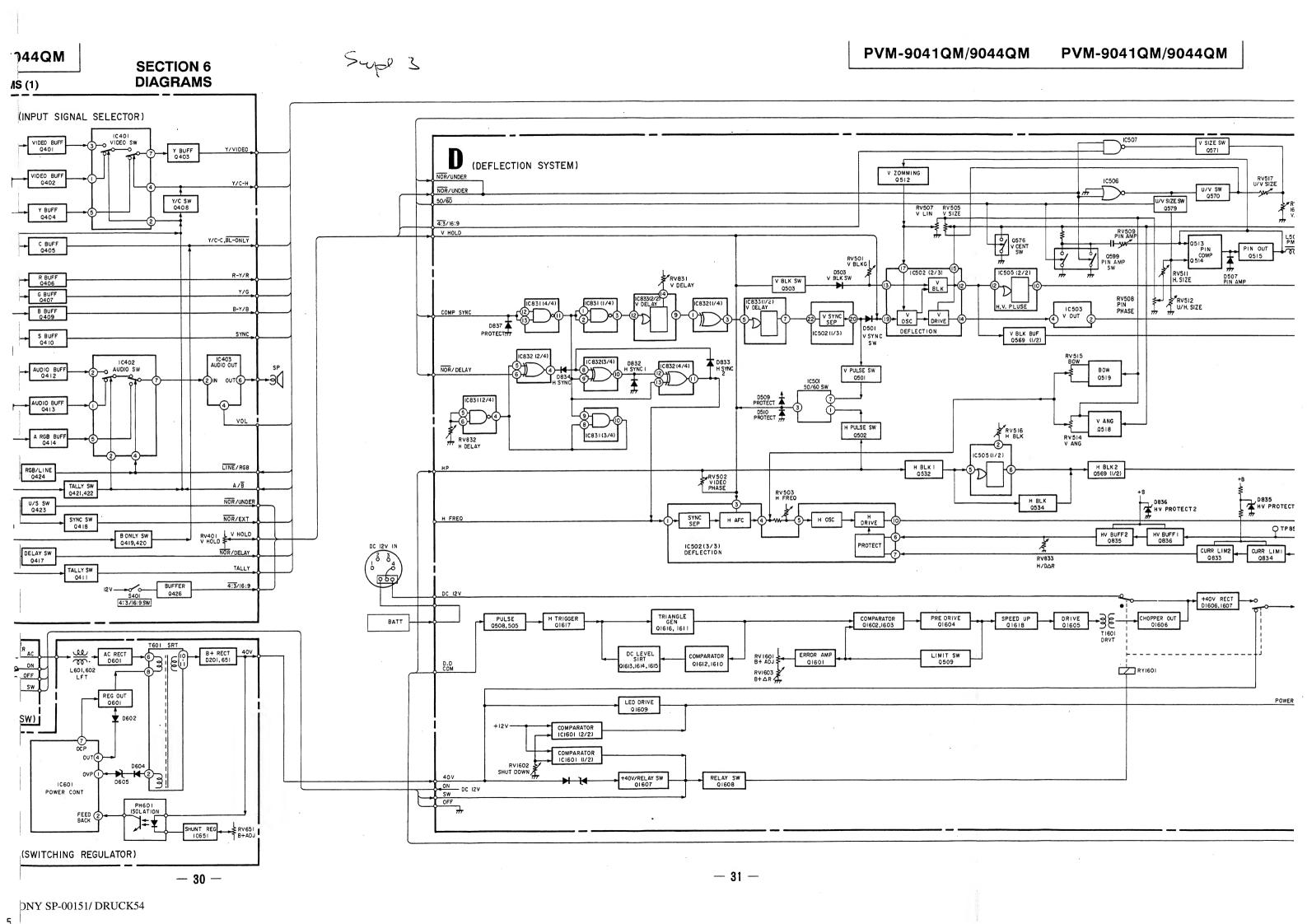
- 4. Connect an oscilloscope to IC124 pin-41 (R-OUT).
- 5. Adjust S board RV1102 (SEC-COL (R-Y)) so that the level difference should be minimum.

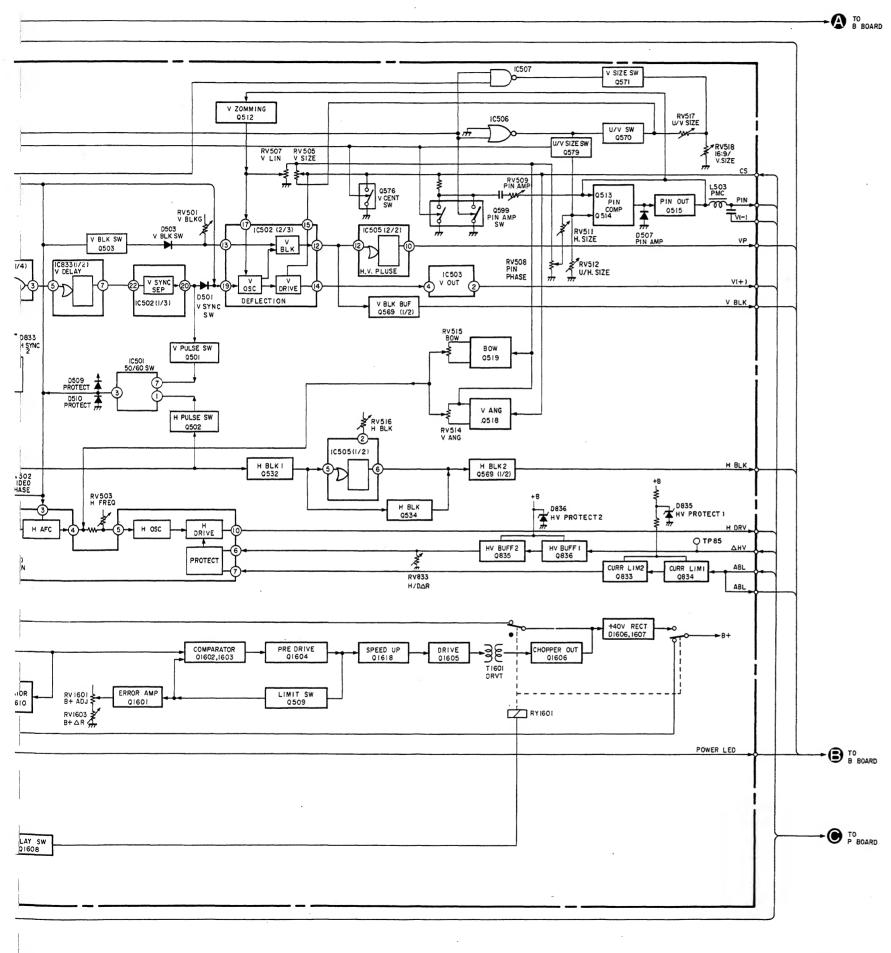


(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

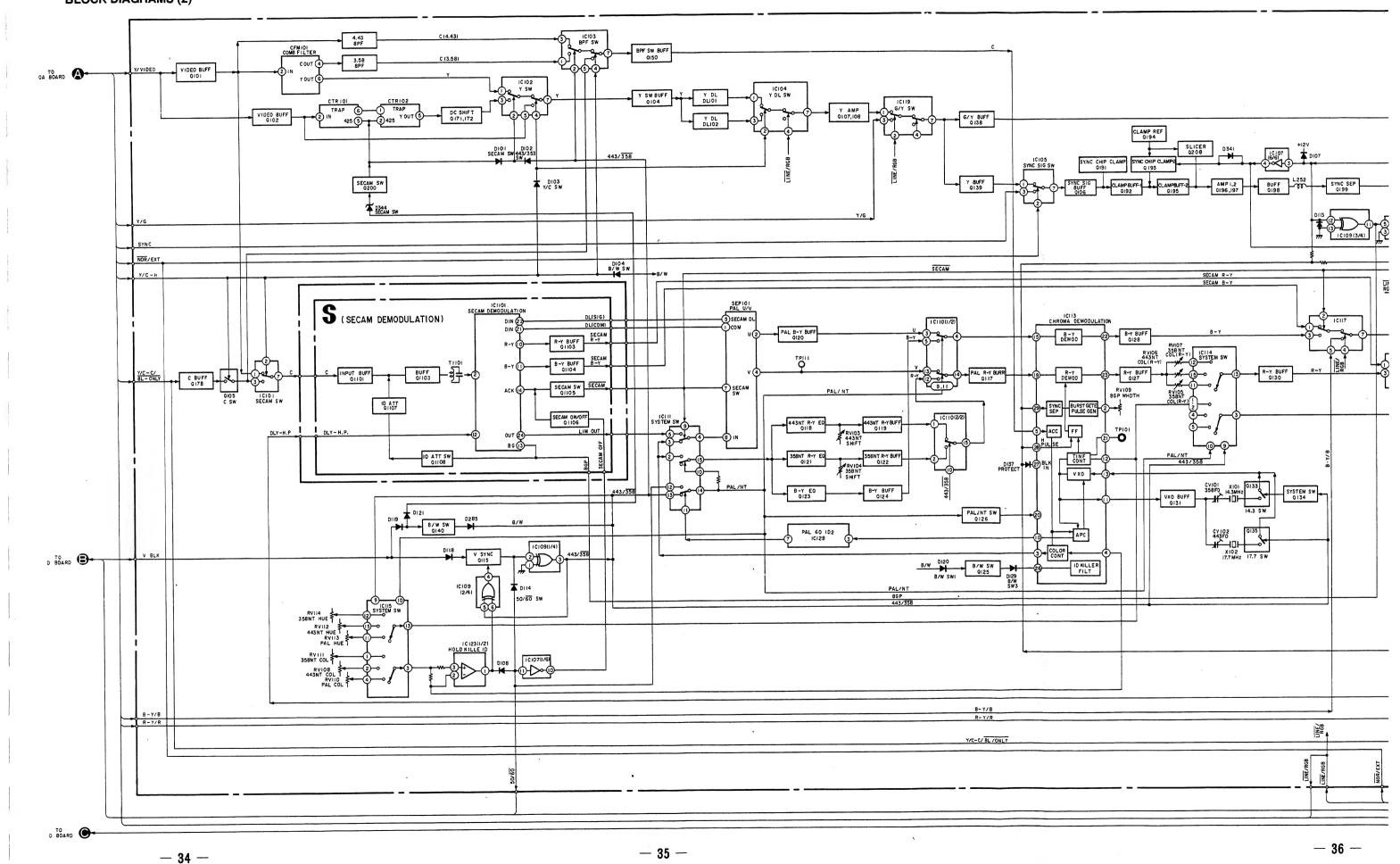


— 30 —

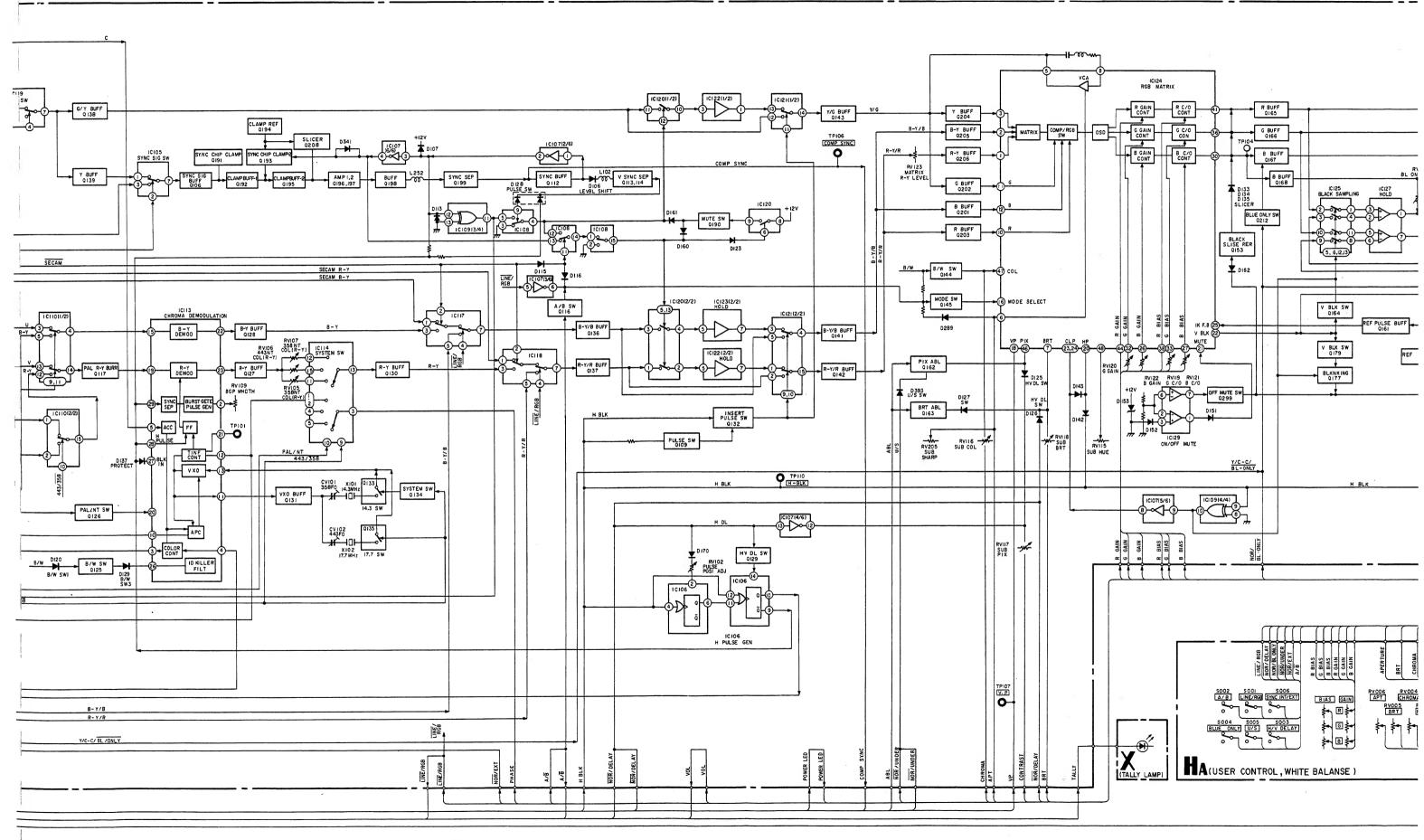


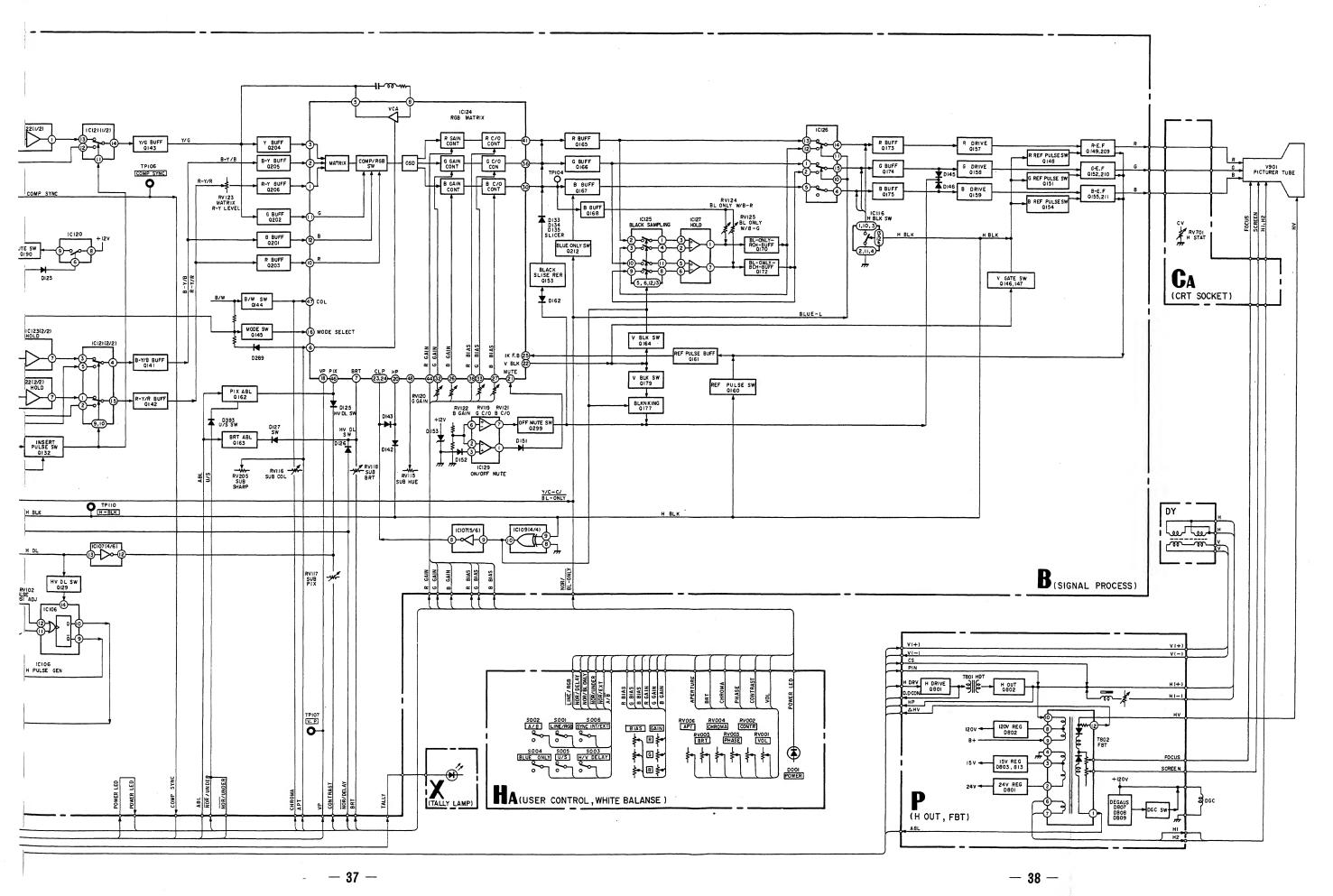


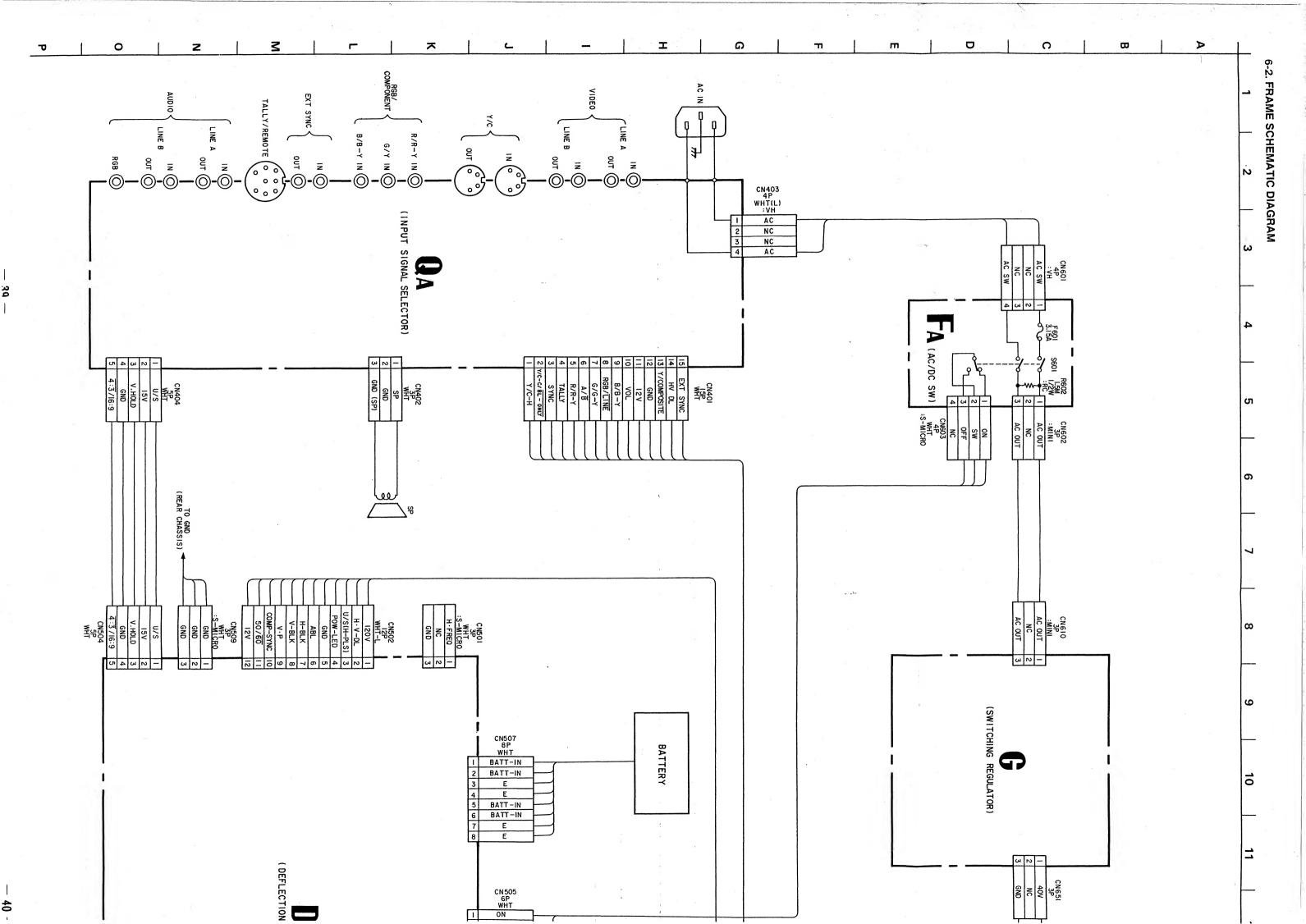
BLOCK DIAGRAMS (2)



1/9044QM

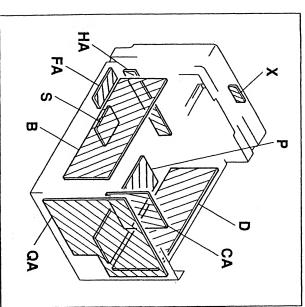






40

6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4W

- All resistors are in ohms. : nonflammable resistor.
- 子: fusible resistor.
- : internal component.: panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

 The components identified by in this basic schematic diagram have been carefully factoryselected for each set in order to satisfy regulations
- regarding X-ray radiation.

 Should replacement be required, replace only with the
- the necessary adjustments indicated. If results do not meet the specified value, change the component identified by M and repeat the adjustment until the specified value is achieved. When replacing components identified by 🗖, make
- When replacing the part in below table be sure to parform the related adjustment. (Refer to RV651, RV1603 and RV833 adjust on Page 19 and 20.)

- IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863.—D BOARD NL801, T802, C814.—P BOARD Q1601, Q1602, Q1603, D1601, D1602, D1603, D1622, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1601, RV1603 — D BOARD aced (**A**) 1601, C654, 56, R657, RV1603 (B+ MAX IN DC POWER INPUT MODE) RV833 (HOLD-DOWN) Adjustment (🙀) RV651 (B+ MAX)
- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise
- Readings are taken with a color-bar signal input. Readings are taken with a PAL color-bar signal input.
- production tolerance. : B+ bus. \_\_\_\_\_\_: adjustment for repair.
 Voltage variations may be noted due to normal
- : B- bus.
- : signal path.

 No mark: with PAL coior-bar signal received or common

-): with SECAM color-bar signal received.
 >: with NTSC 3.58 color-bar signal received.
)): with NTSC 4.43 color-bar signal received.
]: with S (Y/C) color-bar signal received.
 }: with analog RGB color-bar signal received.
 <>>: with component color-bar signal received.

- Reference information
- : RC : FPRD METAL FILM SOLID
- : FUSE NONFLAMMABLE FUSIBLE
 NONFLAMMABLE FUSIBLE
 NONFLAMMABLE WIREWOUND
 NONFLAMMABLE CEMENT
 MICRO INDUCTOR
- : RB : LF-8L
- COIL CAPACITOR : TA : PS : PP POLYPROPYLENE STYROL TANTALUM METALIZED POLYESTER
- HIGH TEMPERATURE HIGH RIPPLE BIPOLAR

atic diagram

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FRAME board

Schematic diagram

D board ➡

Vss ٥٥٧ I Z

D BOARI

Θ

D BOARD W

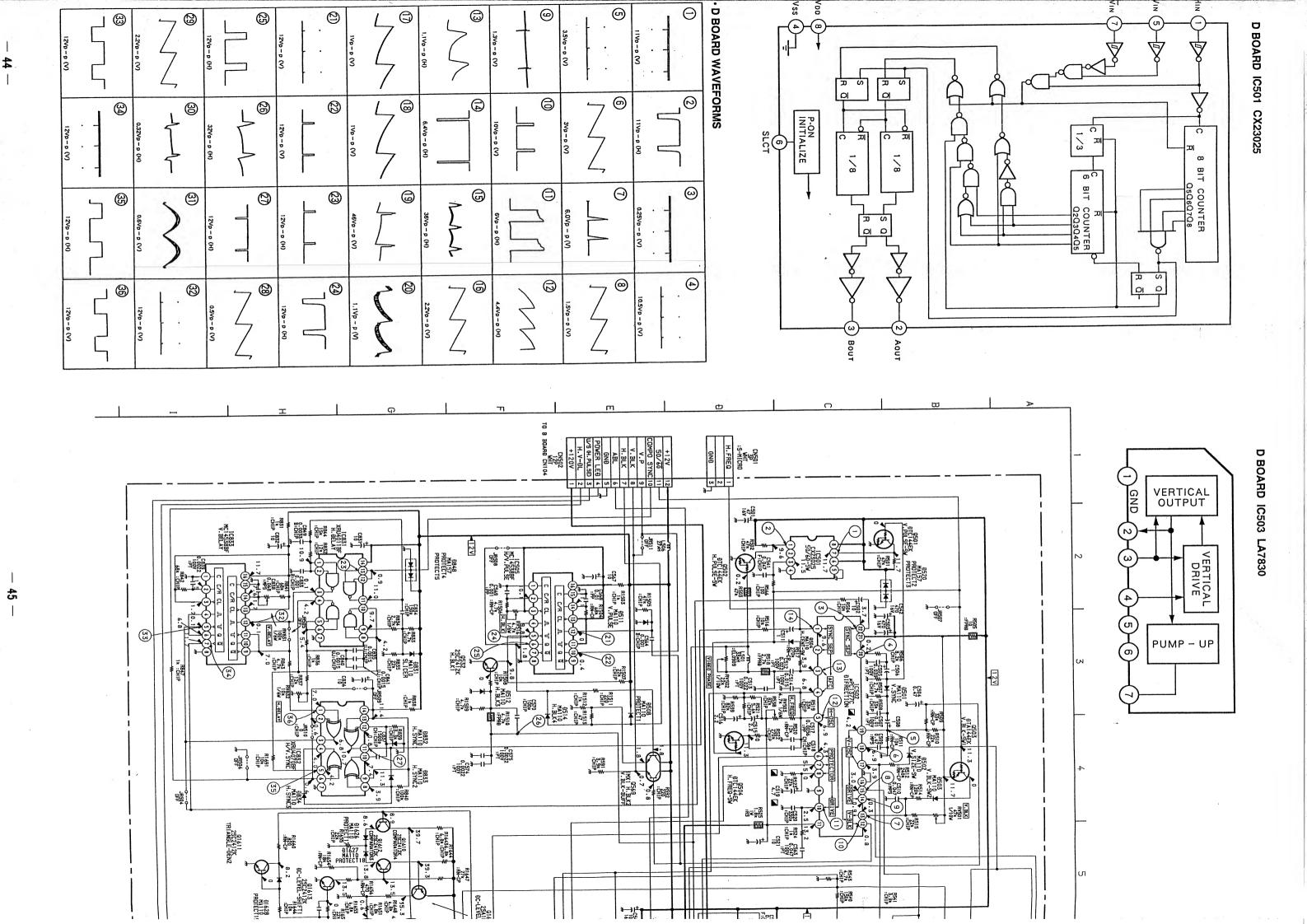
6

(I) 9

(3)

(2)

6



±4 1653 1653

VERTICAL OUTPUT

GND

oard

44

ttic diagram

ATURE

R831 18 C832 10 10

IC833 NC14538BF V.BELAY

XNU4011BF C22

▲12V

PROTI PROTI

Baden o

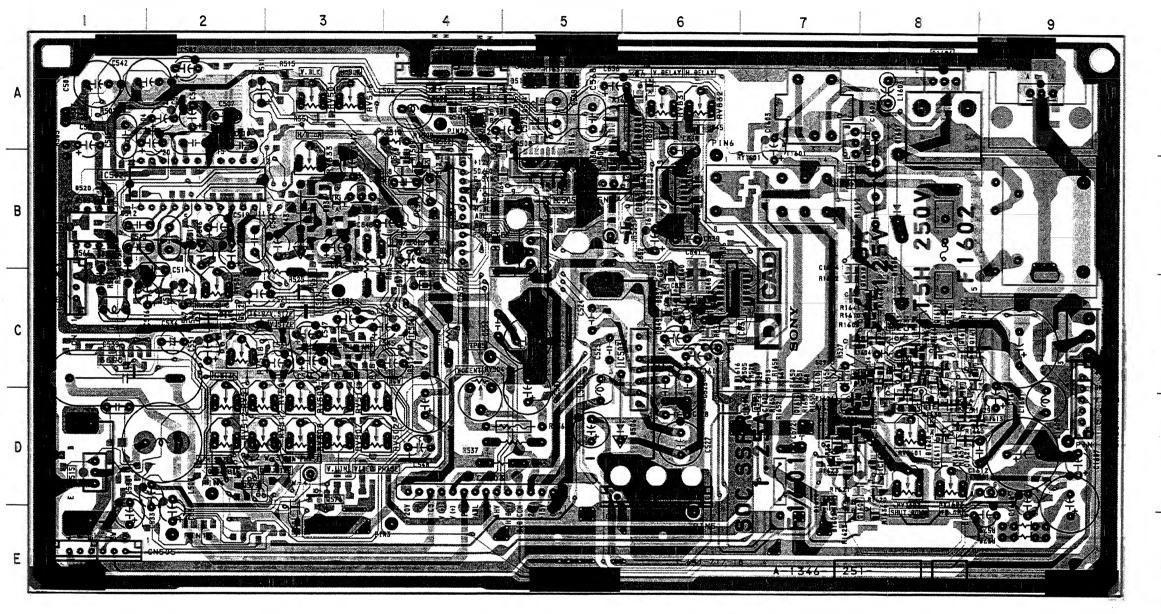
45



- **D BOARD** - (Component Side)

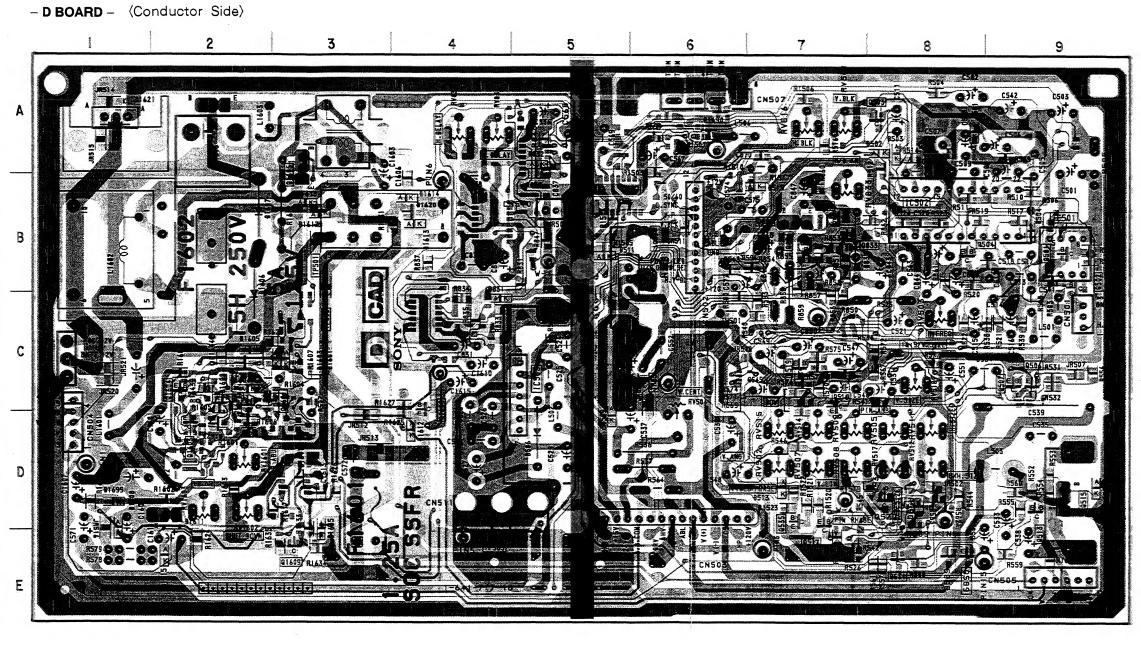
- D BOARD -

| D BOAF | RD (Con | nponent | Side) | |
|---|---|---|--|--|
| | C R = 1 | D512
D514 | B-4
A-5 | |
| IC501
IC502
IC503
IC504
IC505
IC506
IC507
IC831
IC832 | B-1
B-2
C-6
B-5
B-5
C-4
C-3
C-7
A-6 | D520
D521
D833
D834
D835
D836
D848
D1606 | B-1
D-8
A-6
A-6
B-3
B-3
C-6 | |
| IC833
IC1601 | B-6
D-8
SISTOR | D1607
D1609
D1610
D1611 | A-8
D-7
D-7
D-9 | |
| Q505
Q508
Q509
Q512 | D-8
D-8
C-8
C-2 | D1621
D1626
D1627
D1628 | A - 9
D - 8
D - 8
D - 8 | |
| Q512
Q514
Q515
Q532 | A - 5
D - 1
A - 4 | VARIA
RESIS | STOR | |
| Q569
Q571
Q576
Q579
Q599
Q836 | A-4
C-3
D-2
D-2
C-1
B-3 | RV501
RV502
RV503
RV504
RV505
RV507 | A - 3
D - 3
C - 2
D - 4
D - 3
D - 3 | |
| Q1605
Q1606
Q1607
Q1610
Q1611 | B-3
B-7
A-8
E-8
D-7
D-8 | RV508
RV509
RV511
RV512
RV514 | D-3
D-3
D-2
D-2
D-3 | |
| Q1612
Q1613
Q1614
Q1615
Q1616 | C-8
D-9
D-8
C-8 | RV515
RV516
RV517
RV518
RV831
RV832 | C-3
A-3
D-3
C-2
A-6
A-6 | |
| Q1617
Q1618 | C-8
C-8 | RV833
RV1601 | B-3
D-8 | |
| DIC
D506 | D-6 | RV1602
RV1603 | D - 8
D - 8 | |



D506 D508

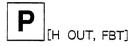




D BOARD (Conductor Side)

| | , | | |
|--|--|---|---|
| IC501
IC502
IC503
IC504 | B-9
B-8
C-5
B-6
SISTOR
B-9
B-9
A-8
B-8
D-9
E-8
D-9
C-7
C-7
D-8
B-7
B-7
C-2
C-2 | D835 D1601 D1603 D1606 D1607 D1608 D1611 D1612 D1615 D1617 D1618 D1620 D1621 D1622 D1623 D1635 D1699 VARIA RESIS | A-7
D-7
C-8
C-6 |
| Q835
Q836
Q1601
Q1602
Q1603
Q1604
Q1605 | B-7
B-7
C-2
C-2
D-2
C-2
A-3 | RV501
RV502
RV503 | A - 7
D - 7
C - 8 |
| Q1606
Q1608
Q1609 | A - 2
C - 4
E - 3 | RV509
RV511
RV512
RV514 | D - 7
D - 8
D - 8
D - 7 |
| D501
D502
D503
D504
D506
D507
D511
D831
D832 | A - 8
A - 8
A - 9
D - 9
B - 4
C - 5 | RV515
RV516
RV517
RV518
RV831
RV832
RV833
RV6101
RV1602
RV1603 | D - 7
A - 7
D - 8
C - 8
A - 4
A - 4
B - 7
D - 2
D - 2 |

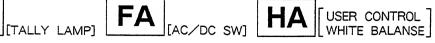
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- : Pattern of the rear side.







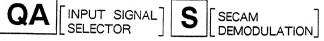




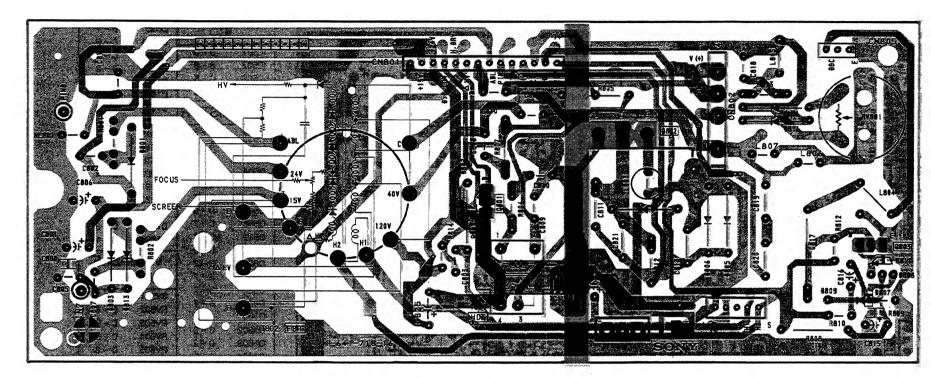




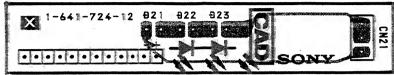




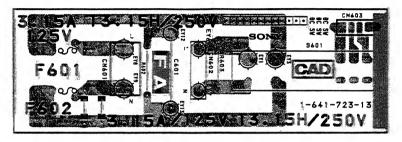
- P BOARD -



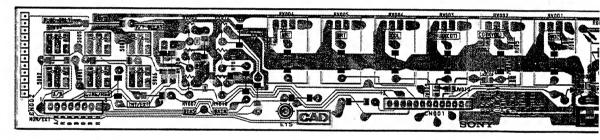
- X BOARD -



- FA BOARD -

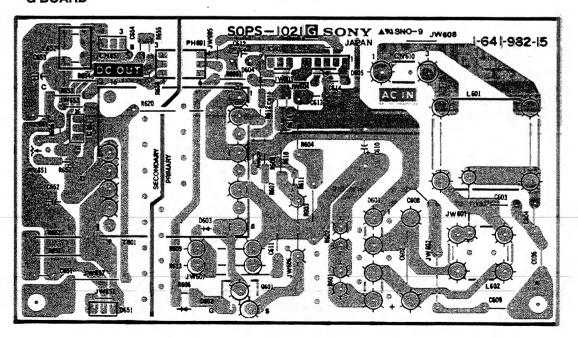


- HA BOARD -

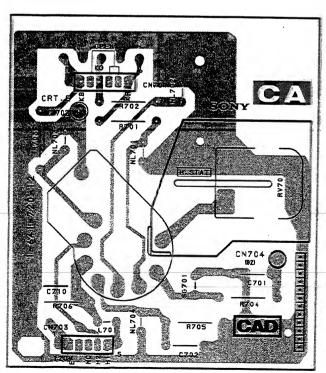


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- Pattern of the rear side.

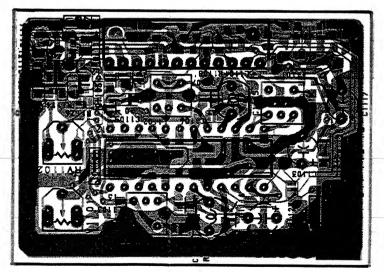
- G BOARD -



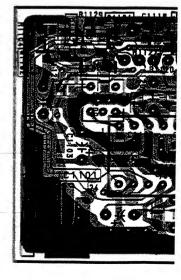
- CA BOARD -



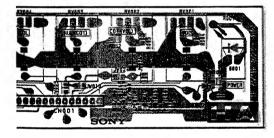
- S BOARD - (Component Side)



(Conductor Side)



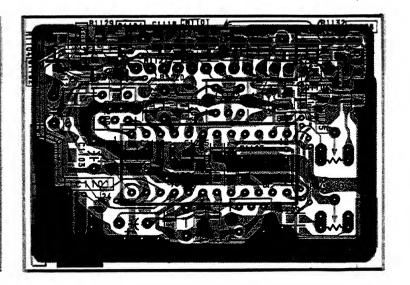




QA BOARD

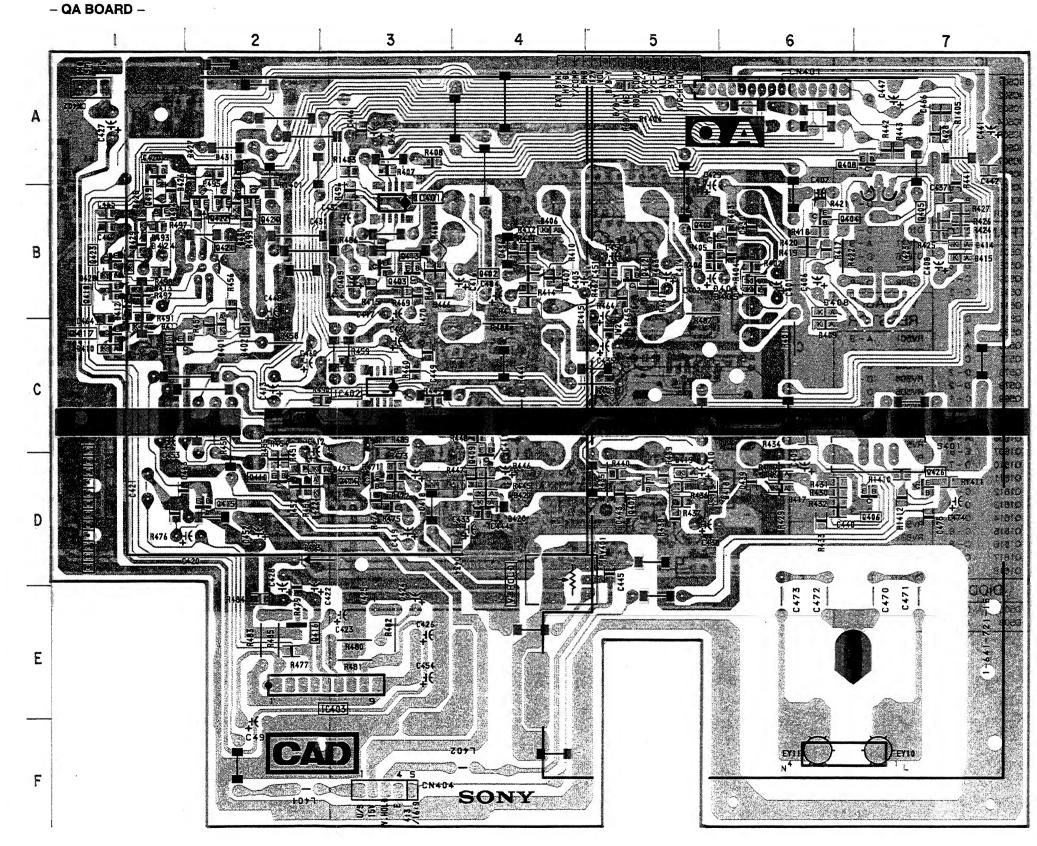
| UA BU | | | |
|--------------|----------------|-------|--------------|
| 1 | C · | D403 | D-2 |
| | | D404 | B-6 |
| IC401 | B-3 | D405 | B-6 |
| IC402 | C-3 | D406 | B - 4 |
| IC403 | E-3 | D407 | B - 4 |
| TRANS | SISTOR | D408. | B-6 |
| | | D409 | C-6 |
| Q401 | B-5 | D410 | C - 1 |
| Q402 | B-4 | D411 | C-1 |
| Q403 | B-3 | D412 | B - 1 |
| Q404 | 8-6 | D413 | B - 1 |
| Q405 | 8-7 | D414 | B - 7 |
| Q406 | D-7 | D415 | B – 7 |
| Q407 | D-5 | D416 | D-6 |
| Q408 | A - 7 | D417 | D - 6 |
| Q409 | C-4 | D418 | D - 5 |
| Q410 | D-2 | D419 | D - 5 |
| Q411 | C-1 | D420 | D - 4 |
| Q412 | B-5 | D421 | D-4 |
| Q413 | B-3 | D422 | D - 2 |
| Q414 | D-3 | D423 | D - 3 |
| Q416 | E – 2 | D424 | B – 1 |
| Q417 | C-1 | D425 | B – 1 |
| Q418 | B - 1 | D426 | B - 1 |
| Q419
Q420 | B - 1
A - 1 | D427 | A - 2 |
| Q420
Q421 | B-2 | D428 | B – 1 |
| | B-2 | D429 | .B - 1 |
| Q422
Q423 | B-2
B-1 | D430 | B - 2 |
| Q424 | B-1
B-2 | D431 | A-2 |
| Q424
Q426 | B-2
D-7 | VARI | ABLE |
| U420 | U = 1 | RECI | STOR |
| | | | |
| DIC | DDE | RV401 | D - 4 |
| D401 | C-2 | | |
| D402 | C-2 | | |

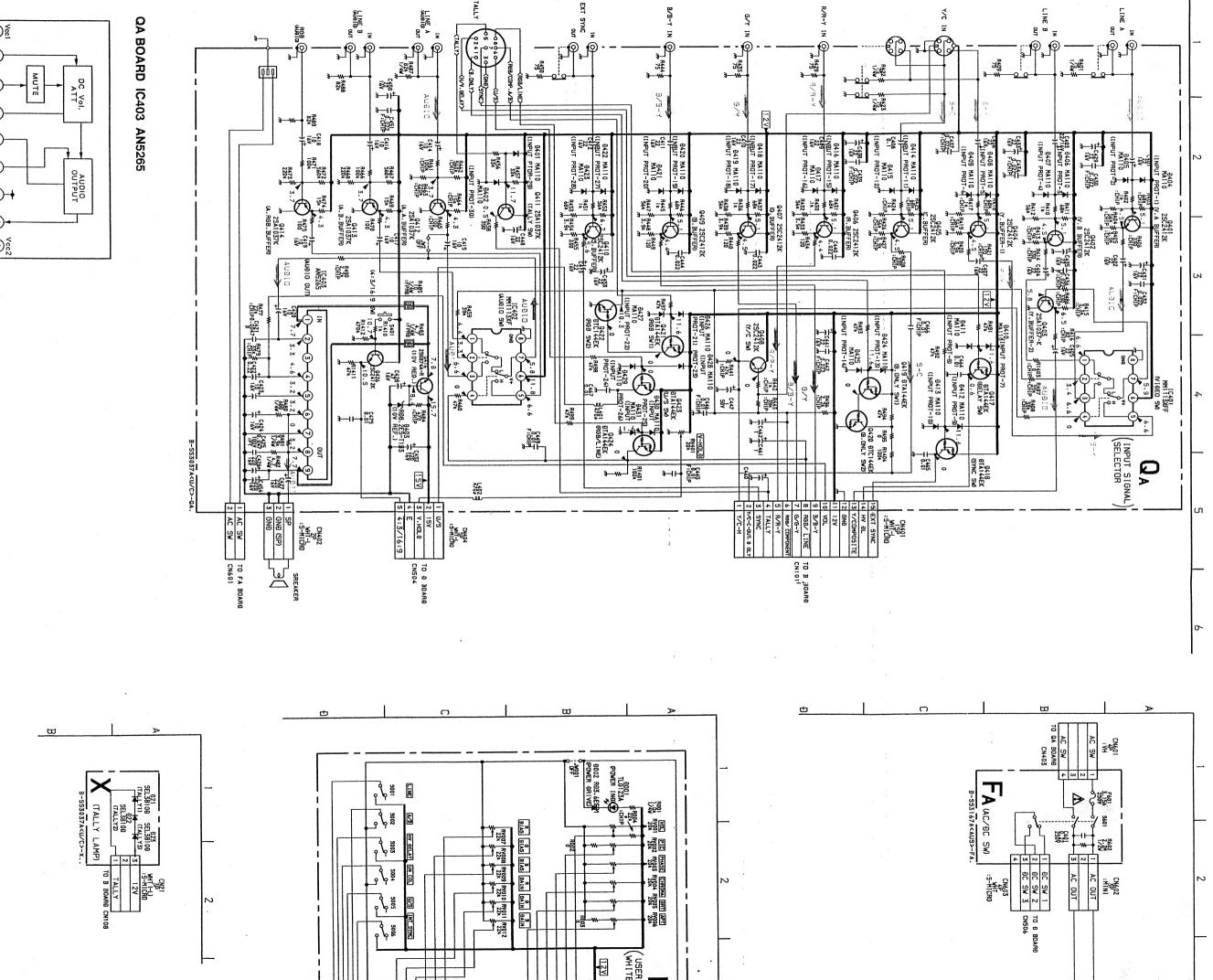
(Conductor Side)

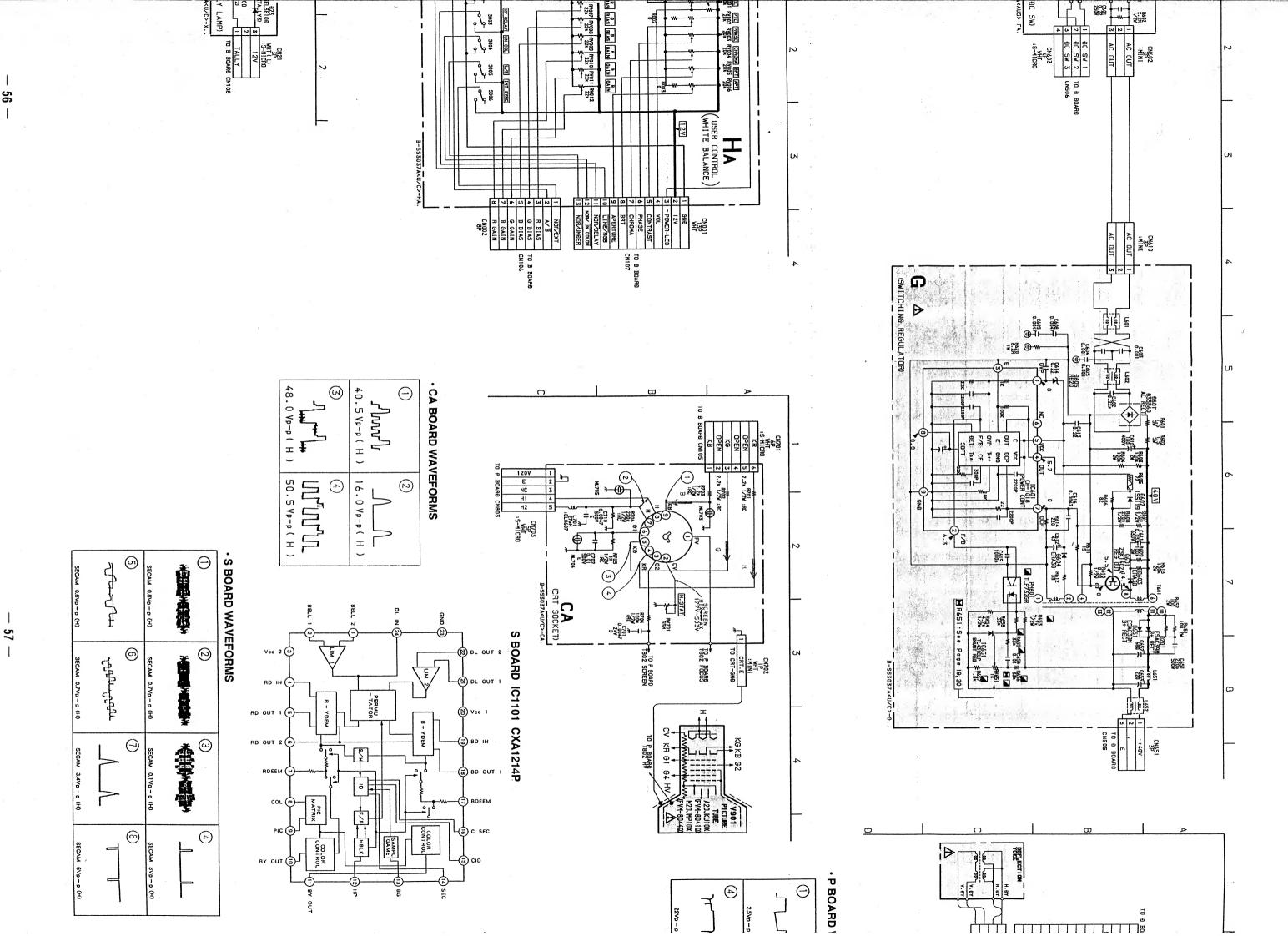


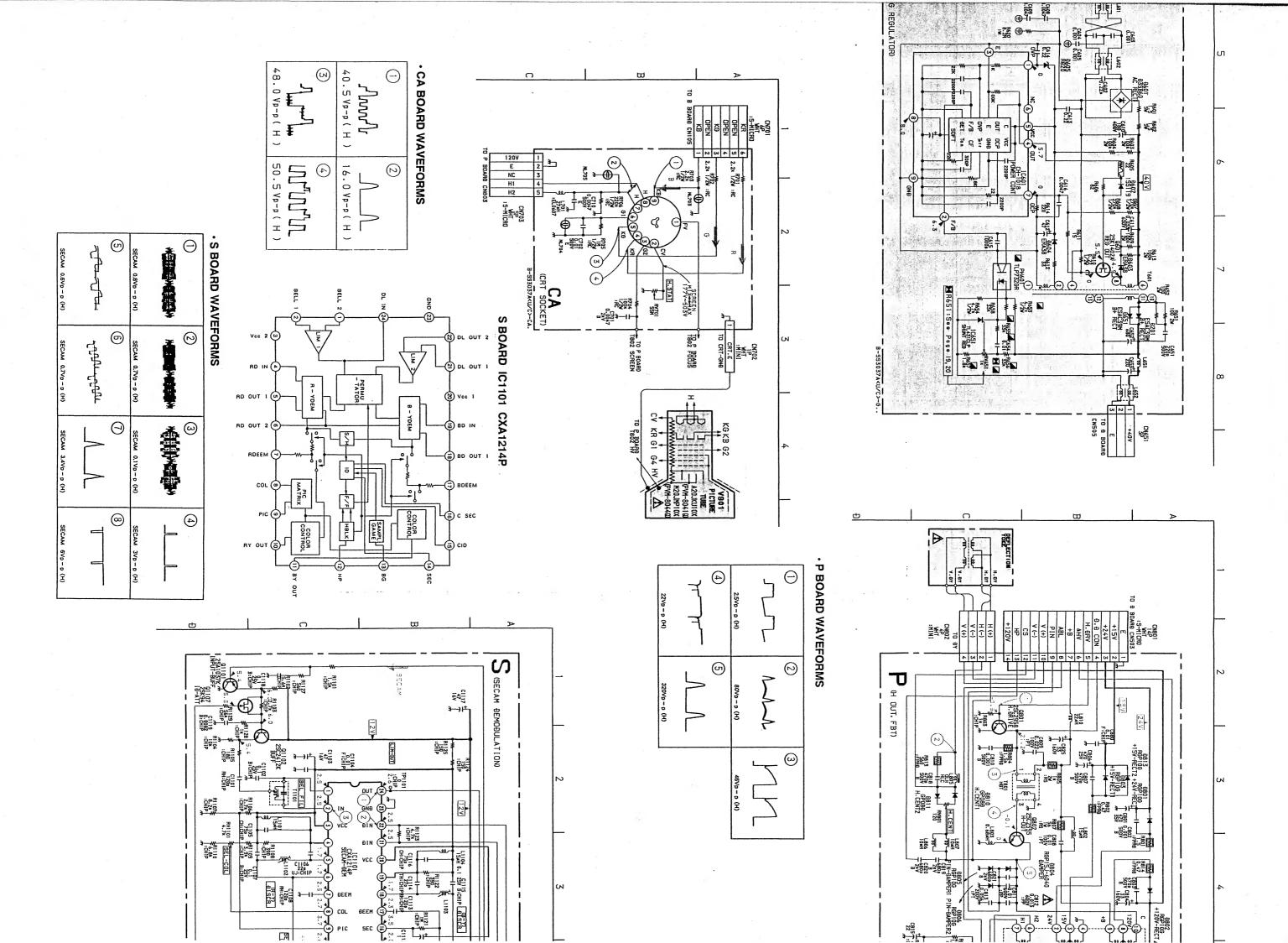
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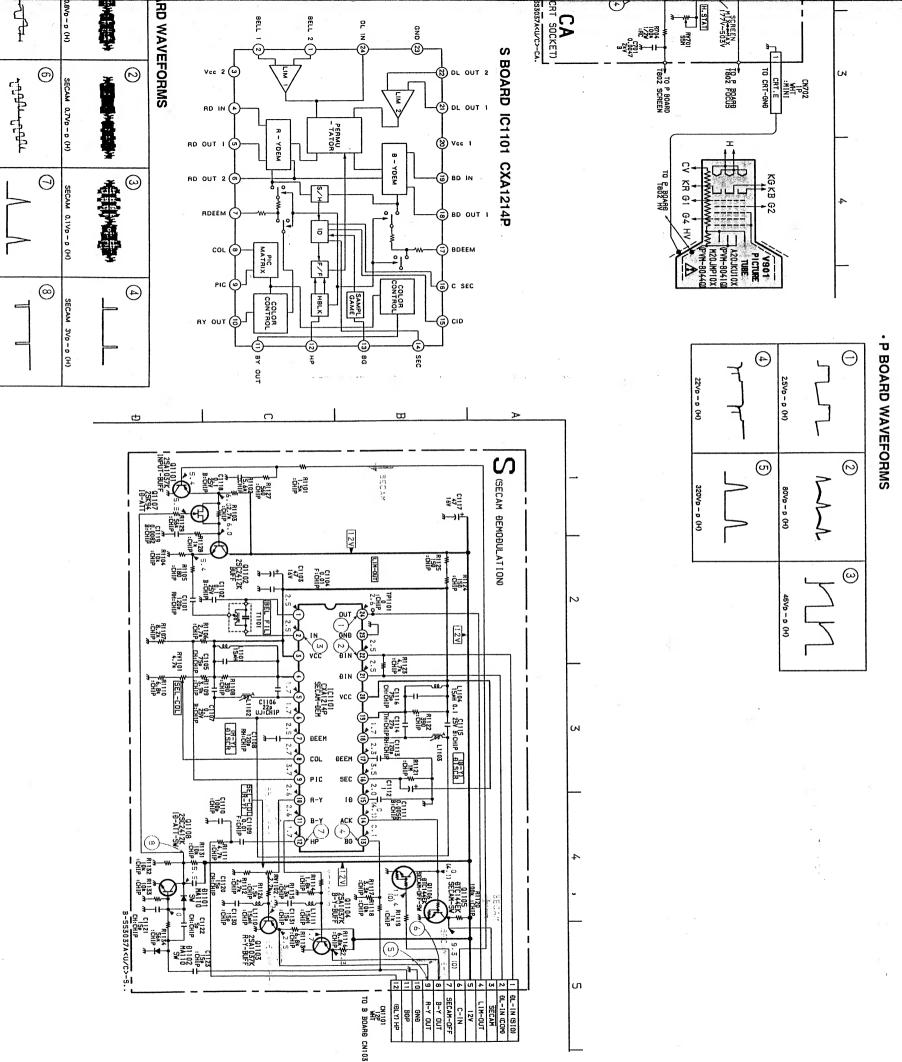
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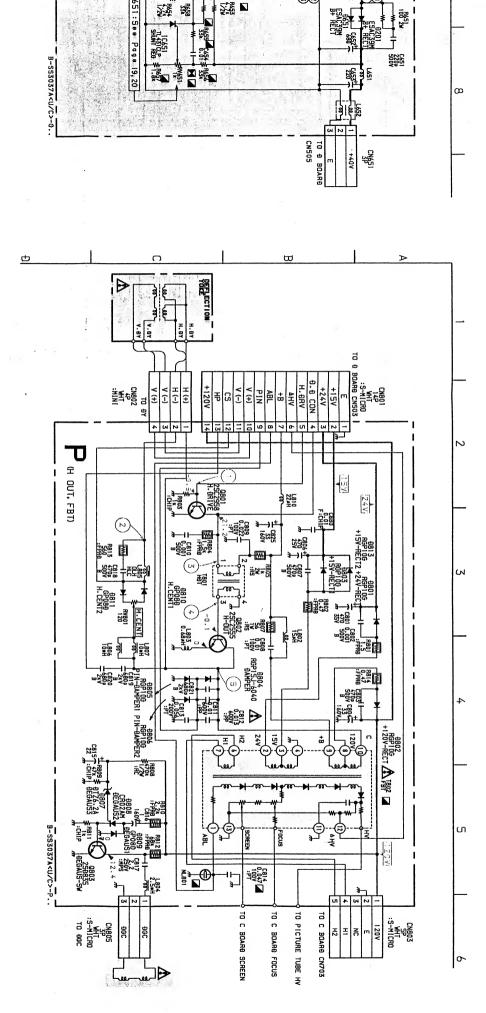












و الساق

B BOARD

GNÐ 2 GNÐ 1 GNÐ 1

(태양

GND
IN COME
99 FILTE
GND FILTE
Y-OUT FR
99

LASI T. B. BILIST T. T. S. BILIST T. T. S. BILIST T.
As to the voltage value shown by the mark % on the Schematic Diagram, see another list.

Same surgings

Section 7

PAZEN 23:73:83:73 43.

Y (PAL. SECAMENTSC4.43)

. 1985 1985

2127 2127

1351 -

| | | ^ # | SNAF | ISTOF | v | | |
|---------------|-------|-------|--|--|--|---|---|
| | PAL | SECAM | NTSC
3.58 | NTSC
4.43 | 8 (Y/C) | | COMPO- |
| m | 0.5 | 0.5 | 2. | 0.4 | 0.5 | - 1 | 0.5 |
| œ | 1.0 | 1.0 | 0.0 | 0.9 | 0.9 | 0.9 | 1.0 |
| m | 11.2 | 9.3 | 0.0 | 10.8 | 0.0 | 0.0 | 0.0 |
| œ | 2.8 | 2.2 | 0.1 | 2.4 | 0.1 | 0.1 | 0.0 |
| m | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 8 | 0.1 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| m | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| В | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| т | 4.3 | 4.3 | 4.4 | 4.4 | 4.5 | 4.4 | 4.4 |
| В | 3.7 | 3.7 | 3.8 | 3.8 | 3.9 | 3.8 | 3.8 |
| Е | 2.3 | 2.3 | 2.4 | 2.3 | 2.4 | 2.4 | 2.4 |
| ဂ | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 |
| œ | 2.7 | 2.6 | 2.6 | 2.7 | 2.8 | 2.7 | 2.8 |
| ဂ | 118.7 | 114.4 | 110.4 | 113.2 | 113.7 | 114.3 | 114.1 |
| m | 117.9 | 115.6 | 111.6 | 114.5 | 115.0 | 115.5 | 115.4 |
| ဂ | 126.0 | 123.5 | 120.3 | 123.4 | 123.8 | 124.6 | 124.4 |
| В | 119.8 | 119.5 | 110.5 | 118.4 | 118.2 | 114.2 | 114.2 |
| ი | 86.1 | 84.9 | 91.2 | 83.4 | 82.6 | 82.5 | 82.2 |
| 100 | 94.0 | 93.3 | 86.3 | 92.4 | 92.1 | 94.2 | 90.6 |
| m | 1.6 | 1.0 | 1.4 | 1.7 | 1.7 | 1.7 | 1.7 |
| c | 86.1 | 84.9 | 91.2 | 83.4 | 82.7 | 82.5 | 82.5 |
| m | 90.7 | 91.4 | 98.0 | 87.9 | 87.0 | 88.5 | 86.4 |
| n | 89.2 | 89.8 | 98.5 | 86.4 | 85.3 | 84.9 | 84.7 |
| 60 | 92.1 | 92.7 | 100.2 | 89.5 | 92.4 | 90.5 | 88.9 |
| m | 86.1 | 86.0 | 92.6 | 82.0 | 82.9 | 82.6 | 82.7 |
| ი | 10.8 | 10.5 | 9.7 | 10.9 | 10.9 | 10.9 | 11.0 |
| œ | 92.5 | 92.9 | 99.8 | 90.1 | 88.7 | 90.4 | 89.2 |
| 8 | 88.3 | 88.5 | 95.7 | 85.7 | 83.9 | 84.0 | 83.9 |
| m | 82.4 | 81.1 | 87.5 | 79.9 | 79.9 | 80.8 | 79.4 |
| 8 | 86.0 | 84.8 | 91.2 | 84.4 | 82.7 | 82.5 | 82.1 |
| m | 1.0 | 1.5 | 1.3 | 1.0 | 1.6 | 1.7 | 1.7 |
| 8 | 2.1 | 2.0 | 1.8 | 2.1 | 2.2 | 2.2 | 2.2 |
| Е | 1.6 | 1.6 | 1.3 | 1.0 | 1.7 | 1.7 | 1.7 |
| æ | 2.2 | 2.1 | 1.5 | 2.1 | 2.2 | 2.2 | 2.2 |
| m | 0.2 | 0.0 | 2.7 | 0.5 | -0.5 | -0.7 | -0.6 |
| В | 0.9 | 0.9 | 0.6 | 1.0 | 1.0 | 1.0 | 1.0 |
| $\overline{}$ | 2.1 | 2.0 | 1.0 | 2.1 | 2.2 | 2.1 | 2.2 |
| 8 | 2.3 | 2.3 | 2.1 | 2.4 | 2.4 | 2.4 | 2.4 |
| 8 | 2.2 | 2.1 | 1.9 | 2.2 | 2.3 | 2.2 | 2.3 |
| В | 1.7 | 1.0 | 1.4 | ĭ.7 | 1.7 | 1.7 | 1.7 |
| m | 2.1 | 2.0 | 1.8 | 2.1 | 2.2 | 2.2 | 2.2 |
| В | | 1.5 | 1.3 | 1.0 | 1.8 | 1.7 | 1.7 |
| В | 6.2 | 8.3 | 6.2 | 8.3 | 0.1 | 8.2 | 6.2 |
| m | 83.4 | 81.5 | 87.9 | 80.3 | 80.4 | 80.4 | 79.8 |
| 0 | 115.6 | 113.2 | 110.7 | 113.2 | 113.8 | 114.5 | 114.2 |
| | 87.8 | 88.4 | 92.8 | 85.0 | 84.3 | 84.2 | 83.8 |
| m | 86.5 | 86.3 | 93.1 | 83.0 | 83.3 | 83.0 | 82.8 |
| C | 118.5 | 114.2 | 111.5 | 113.9 | 114.5 | 115.1 | 114.9 |
| C | 115.0 | 113.6 | 111.7 | 113.3 | 113.8 | 114.5 | 114.3 |
| | | | PAL SECA 0.5 0.5 1.0 1.0 1.1.2 9.3 2.8 2.3 0.0 0.0 0.1 0.0 0.0 0.0 1.8 1.1 1.7 114. 1.10. 128. 1.8 1.2 1.8 1.3 1.8 1 | PAL SECA 0.5 0.5 1.0 1.0 1.1.2 9.3 2.8 2.3 0.0 0.0 0.1 0.0 0.0 0.0 1.8 1.1 1.8 1.1 1.9 1.2 1.8 1.2 1.8 1.3 | PAL SECA 0.5 0.5 1.0 1.0 1.1.2 9.3 2.8 2.3 0.0 0.0 0.1 0.0 0.0 0.0 1.8 1.1 1.8 1.1 1.9 1.2 1.8 1.2 1.8 1.3 | PAL SECAM NTSC NTSC NTSC NTSC NTSC NTSC NTSC NTSC | PAL SECAM NTSC NTSC |

| 2.8 | 2.8 | 2.8 | 2.8 | 2.4 | 2.7 | 2.1 | 9 | |
|-------|---------------|---------|--------------|--------------|------------|------|----------|-------|
| 1.5 | 1.5 | 1.5 | 1.5 | 1.3 | : <u>.</u> | 1.2 | 0 | |
| 3.0 | 3.0 | 3.1 | 3.0 | 2.6 | 2.9 | 3.0 | Θ | IC127 |
| = | :
6 | 1.7 | 1.7 | 1.4 | 1.6 | 1.7 | €) | |
| 1: | :. | 1:0 | 1.6 | 1.3 | 1.5 | 1.6 | Ø | |
| 1.6 | 1.7 | 1.0 | 1.6 | 1.3 | 1.5 | 1.6 | 0 | 10128 |
| 1.5 | 1.5 | 1.5 | 1,4 | 1.3 | 1.4 | 1.4 | Θ | IC125 |
| 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0 | JC124 |
| 5.1 | 5.1 | 5.2 | 5.2 | 5.4 | 5.3 | 5.3 | 9 | |
| 5.1 | 5.1 | 5.2 | 5.2 | 5.4 | 5.3 | 53 | 0 | IC122 |
| 5.6 | 5.7 | 5.7 | 5.0 | 5.6 | 5.7 | 5.0 | 8 | |
| 5.7 | 5.7 | 5.7 | 5.6 | 5.6 | 5.7 | 5.6 | 8 | |
| 5.1 | 5.1 | 5.2 | 5.2 | 5.4 | 5.3 | 5.3 | 0 | 10121 |
| 5.6 | 5.0 | 5.8 | 5.0 | 5.6 | 5.6 | 5.5 | ⊕ | |
| 5.8 | 5.0 | 5.0 | 5.0 | 5.6 | 5.8 | 5.5 | Θ | IC120 |
| = | :: | = | :- | 1.0 | 0.0 | 0.0 | 0 | IC116 |
| 12 | 3.4 | 3.4 | 2.8 | 3.4 | 3.5 | 3.5 | 0 | |
| 8 | 0.0 | 0.7 | 0.7 | 0.6 | 1.1 | 1.2 | Θ | IC115 |
| 3.0 | 3.9 | 3.8 | 3.8 | 3.8 | 3.7 | 3.7 | 0 | |
| 8 | 0.0 | 0.0 | 0.0 | 0.0 | 11.3 | 11.4 | 6 | 10114 |
| 2.8 | 2.8 | 1.0 | 2.2 | 2.9 | 2.5 | 2.2 | Ø | |
| 2.8 | 2.9 | 2.8 | 3.0 | 2.8 | 2.9 | 3.0 | ⊖ | |
| : | : | 4.3 | ۵.۵ | 4.2 | 4.3 | 4.2 | 9 | |
| = | Ξ | 20 | 2.6 | 2.6 | 1.1 | 2.7 | • | 10113 |
| 2.5 | 2.5 | 2.5 | 2.6 | 2.5 | 1.7 | 1.7 | 0 | |
| 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 0.8 | 8.0 | 0 | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.3 | 11.3 | 0 | |
| 0.0 | 0.0 | 0.0 | 11.3 | 0.0 | 11.3 | 11.3 | 8 | |
| 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.2 | 2.1 | Θ | 10110 |
| 0.0 | 0.0 | 0.0 | 11.0 | 0.0 | Ξ. | 11.0 | Ø | |
| 0.0 | 0.0 | 0.0 | 11.7 | 0.0 | 0.0 | 11.7 | Θ | |
| 0.0 | 0.0 | 0.0 | 11.3 | 0.0 | 11.4 | 11.3 | 0 | |
| 0.0 | 0.0 | 0.0 | 10.8 | 0.0 | 11.3 | 11.3 | 0 | IC109 |
| 9.6 | 1.1 | 9.6 | 9.0 | 9.7 | 4.0 | 9.7 | 0 | 10108 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 1.2 | 0 | |
| 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.7 | 10.7 | 0 | IC107 |
| 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | Θ | |
| 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0 | IC108 |
| 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 8.8 | 6.6 | 9 | IC102 |
| COMPO | ANALOG
RGB | s (Y/C) | NTSC
4.43 | NTSC
3.58 | SECAM | PAL | | |
| | | | | | | |] | |

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RI 330 ₹ RI 332

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35887-221 PEC 35887-4-03-780-67

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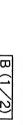
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B (1/2) board

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PULSE-2

BLUE-L

CLP-2 RGB. COMP

A-H/B-L VOL 麗

BECAN-SWS

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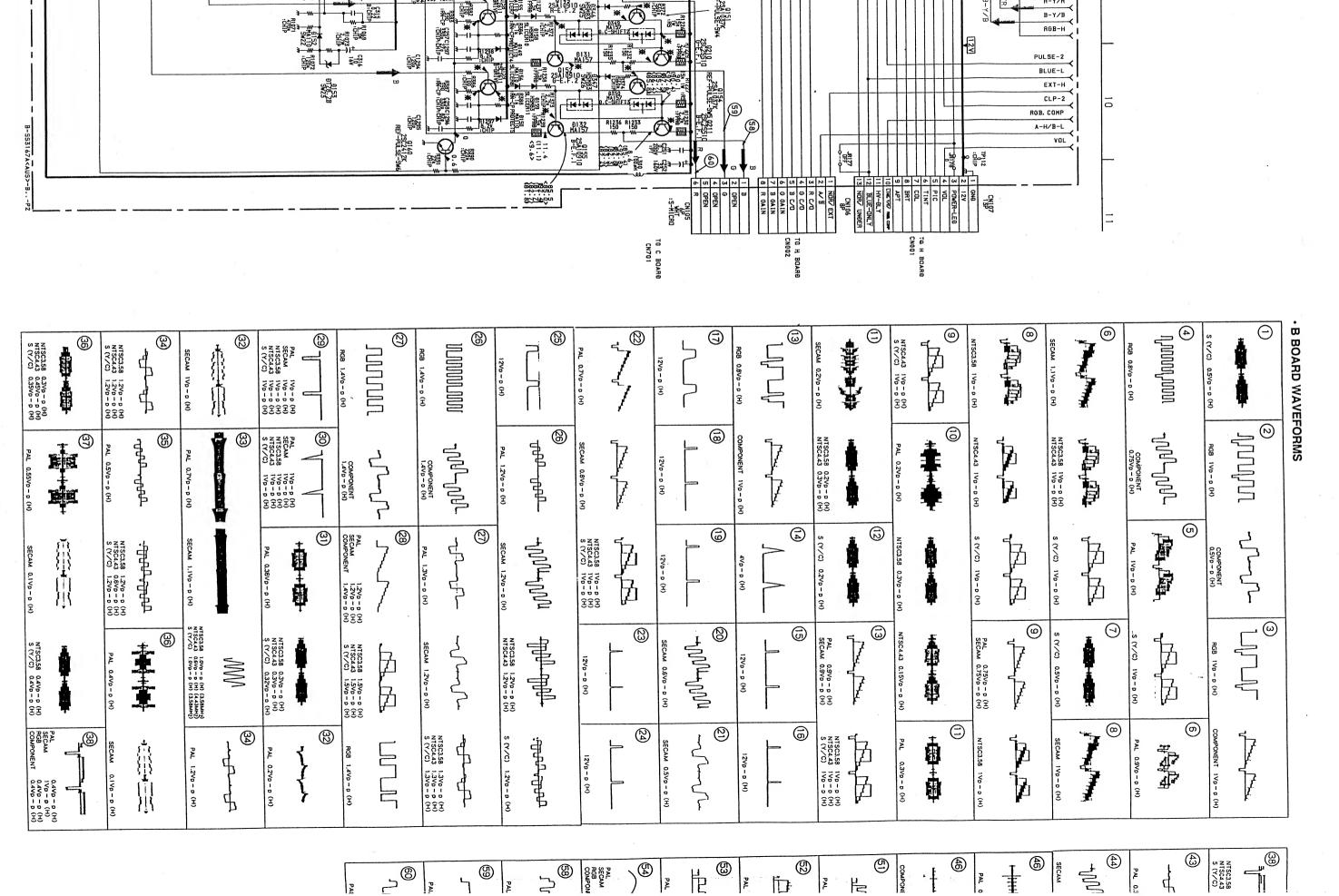
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25Å 037K REF-PULSE-5W4

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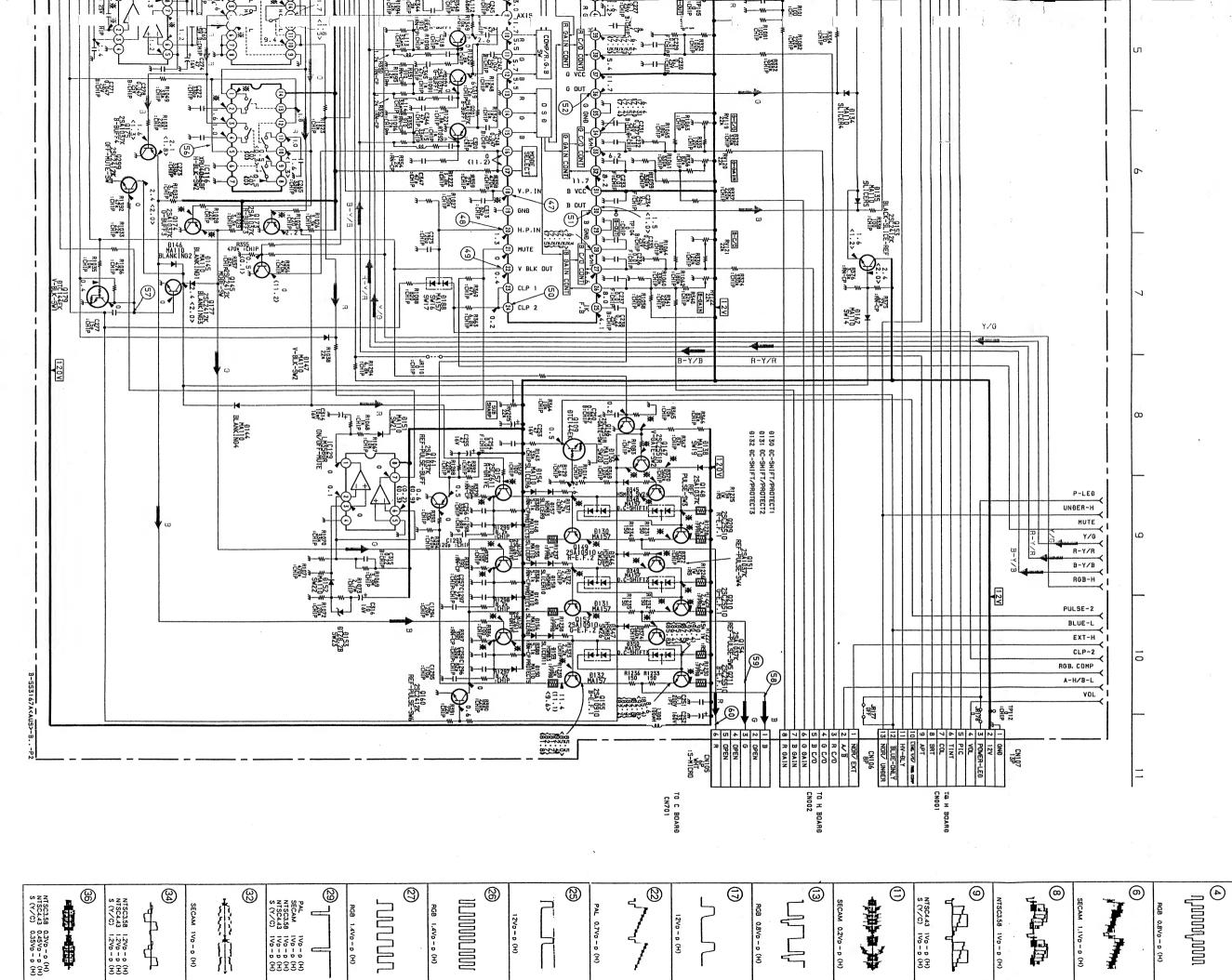
B-Y/B RGB-H

UNĐER-H MUTE Y/G

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(8)

July

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NTSC3.58 0.2\ NTSC4.43 0.3\

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D

NTSC3.58 1VI NTSC4.43 1VI 100

PAL SECAM NTSC3.58 NTSC4.43 S (Y/C)

(3)

B BOARD WAVEFORMS

July July

— 66 **—**

| RGB 1.4Vp - p (H) | | NTSC3.58 1.3Vp - p (H) NTSC4.43 1.3Vp - p (H) S (Y/C) 1.3Vp - p (H) | | S (Y/C) 1.2Vp-p (H) | ᠄ᡚᠾᠣ᠕ᡀᠤ | 12Vp - p (H) | 24 | SECAM 0.5Vp - p (H) | -7/h-7/h | 12Vp - p (H) | | NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H) | | PAL 0.3Vp - p (H) | | NTSC3.58 1Vp - p (H) | | SECAM IVp-p (H) | <u>®</u> | PAL 0.9Vp - p (H) | @
@ | COMPONENT IVO - D (H) | |
|--|-----------------|---|---|--|-------------|---|----------|---|------------------------------|---|--------|---|-------------|-------------------------|---------|------------------------|------------------|---|--|--|-------------------------|---|---|
| PAL 66Vp - p (H) | راکیراید
(۱) | PAL 76V0-0 (H) | \$\frac{1}{2} \cdot \frac{1}{2} | PAL 72Vp - p (H) | | PAL 0.5Vp - p (V) SECAM 0.5Vp - p (V) RGB 0.5Vp - p (V) COMPONENT 0.5Vp - p (V) | | PAL 25Vp - p (H) | البربالبيد
(3) | PAL 26Vp - p (H) | ® | PAL 2.6Vp - p (H) | mul'uml' | COMPONENT 0.3Vp - p (H) | 466
 | PAL 0.36Vp - p (H) | T | SECAM 0.45Vp - p (H) | -\VV\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | PAL 0.35Vp - p (H) | (A) | NISC3.58 0.4Vp - D (H) NISC3.58 0.4Vp - D (H) NISC4.43 0.4Vp - D (H) S (Y/C) 0.4Vp - D (H) | |
| SECAM 64Vp-p (H) | كمراكمرا | SECAM 72Vp-p (H)
NTSC3.58 72Vp-p (H) | المرابر | SECAM 80Vp - p (H) | พโรงเกโรง | NTSC3.58 0.9Vp - p (V) NTSC4.43 1Vp - p (H) S (Y/C) 0.7Vp - p (V) | > | SECAM 2.5Vp - p (H) | | SECAM 2.6Vp - p (H) | 7 | SECAM 3Vp-p(H) | ուսորուսալո | 4.6Vp - p (V) | (£) | SECAM 0.35Vp - p (H) | + | NTSC3.58 0.45Vp - p (H)
NTSC4.43 0.4Vp - p (H) | ᡥᡗᡀᡎᡙᡀ | SECAM 0.35Vp - p (H) | سلمسمرار | (H) | , |
| NTSC3.58 80Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 80Vp - p (H) | لتعرابكمرد | NTSC4.43 90Vp - p (H)
S (Y/C) 86Vp - p (H) | | NTSC3.58 86Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H) | कित्म कित्न | 11Vp - p (H) | <u> </u> | NTSC3.58 3.1Vp-p (H) NTSC4.43 3.1Vp-p (H) S (Y/C) 3.1Vp-p (H) | | NTSC3.58 3.4Vp-p (H) NTSC4.43 3.4Vp-p (H) S (Y/C) 3.4Vp-p (H) | P
P | NTSC3.58 3.2Vp - p (H) NTSC4.43 3.2Vp - p (H) S (Y/C) 3.2Vp - p (H) | रे हिएएपरिय | 10.4Vp - p (V) | (A) | NTSC3.58 0.8Vp - p (H) | | S (Y/C) 0.33Vp - p (H) SECAM COMPONENT 0.36Vp - p (H) COMPONENT | Պոր-Մոր | NTSC3.58 0.35Vp - p (H) NTSC4.43 0.32Vp - p (H) S (Y/C) 0.35Vp - p (H) | | PAL 11Vp - B (H) | |
| RGB 70Vp - p (H) | Journage | RGB 70Vp - p (H) | | RGB 70Vp - p (H) | يما لسس لمن | 10Vp - p (H) | (B) | RGB 2.5Vp - p (H) | | RGB 2.7Vp - p (H) | | COMPONENT 3Vp - p (H) | ിഗസിഗസ | 3.5Vp - p (V) | (a) | NTSC4.43 0.6Vp - p (H) | +1111-11-11 -11 | PAL 0.5Vp - p (H) SECAM 0.5Vp - p (H) COMPONENT 0.6Vp - p (H) | 7 | COMPONENT
0.28Vp - p (H) | 7 | 41) PAL 1.8Vp - p (H) | |
| COMPONENT BOVD - p (H) | بمراكر | COMPONENT 80VP - P (H) | ا
ا
ا | COMPONENT 80Vp - p (H) | -إلىسراسس | 2.4Vp - p (H) | (S) | COMPONENT 2.8Vp - p (H) | 477 | COMPONENT 3Vp - p (H) | 7 | RGB 2.7Vp - p (H) | ւխոտոնու | 3.5Vp - p (H) | | S (Y/C) 0.8Vp - p (H) | | NTSC3.58 0.8Vp - p (H) NTSC4.43 0.8Vp - p (H) S (Y/C) 0.6Vp - p (H) | 7 | PAL 0.45Vp - p (H) | دائور دائور. | PALM 1199 010 | |

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(5)

COMPONENT 0.5Vp - p (H)

RGB 1Vp-p (H)

COMPONENT 0.75Vp - p (H)

(7)

FORMS

W

(Component Side)

BOARD

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| (Com | (Component Side) | Side) | | |
|-------|------------------|----------|--------------|---|
| | Q147 | C-8 | D154 | A - 8 |
| | 0149 | A - 9 | D156 | B - 8 |
| D - 5 | 0150 | ກ
ເກ | D157 | A - 8 |
| D-6 | 0152 | 8 - 9 | D162 | A - 7 |
| E - 5 | 0155 | B - 9 | D188 | B - 6 |
| C-6 | 0157 | A - 8 | D191 | B - 1 |
| D – 4 | 0158 | B - 8 | D342 | C-7 |
| D - 1 | Q159 | B - 8 | D343 | m - 1 |
| 0-1 | 0164 | A
- 8 | D344 | D - 5 |
| C-1 | 0166 | B - 8 | D345 | A - 9 |
| B-2 | 0171 | D - 6 | D346 | B - 9 |
| D-7 | Ω176 | D - 6 | D347 | B - 9 |
| C-7 | 0189 | D-2 | D348 | A − 9 |
| D - 8 | 0191 | A - 2 | D349 | B - 9 |
| D - 9 | 0193 | 8 - | D350 | 8 - 9 |
| D - 8 | Q196 | A - 1 | D390 | B - 1 |
| 0-9 | 0197 | A - 1 | D393 | D - 2 |
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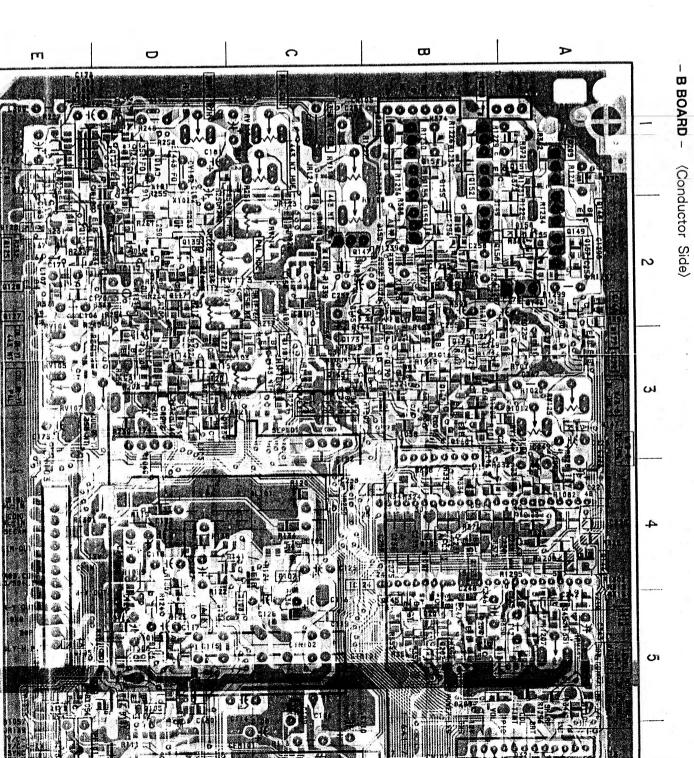
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| | 1 | RV118 | >
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8 | D130 | B - 1 | 0115 |
| | 1 | RV116 | 1 | D128 | ī | 2109 |
| | 1 | RV115 | 1 | D123 | D - 6 | Ω104 |
| | 1 | RV114 | C-2 | D122 | - 1 | 2101 |
| | 1 1 | RV113 | 1 | 0121 | אטוטוט | KANUIU |
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| | 1 | | | 0299 | 8-7 | C126 |
| | 7 C | 2 7 6 | 1 | 0212 | 8-7 | C125 |
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| - | n 0 | DV105 | 1 | 0210 | C-3 | |
| | ī | BV104 | 'n. | 0209 | C-3 | C122 |
| 12 | ı | RV103 | 1 | Ω208 | 8-3 | C121 |
| | ı | BV102 | ī | Q206 | Β
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ω | C120 |
| | - | BV101 | 1 | Ω205 | D - 3 | C119 |
| | STOR | RESIS | 1 | 0204 | D-3 | C118 |
| | אַטרב | VAKIA | 1 | Ω200 | D - 4 | |
| | 2 | | I, | 0198 | B - 7 | C116 |
| | D-2 | D393 | A - 1 | 0197 | 0-9 | C115 |
| | 8 - 1 | D390 | A - 1 | Q196 | D - 8 | C114 |
| | 8-9 | D350 | 8 - | Ω193 | D - 9 | C113 |
| | B - 9 | D349 | A-2 | 0191 | D - 8 | 0112 |
| | A - 9 | D348 | D-2 | Ω189 | C-7 | 0111 |
| | B - 9 | D347 | D - 6 | Ω176 | D-7 | 0110 |
| | B - 9 | D346 | D - 6 | Ω171 | B-2 | C109 |
| | 8 - A | D345 | 8 - 8 | 0166 | C - 1 | 2108 |
| | D - 5 | D344 | »
« | 0164 | C-1 | 2107 |
| | E-1 | D343 | 8 - 8 | Ω159 | D - 1 | 2106 |
| | C-7 | D342 | B - 8 | 0158 | D-4 | 0105 |
| | B - 1 | D191 | >
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8 | Q157 | C - 6 | 0104 |
| | B - 6 | D188 | B - 9 | 0155 | т
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| | A - 7 | D162 | 1 | | D-6 | 0102 |
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U | 0150 | D-5 | 2101 |
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| B BOAF | BOARD (Conductor Side) | ductor \$ | Side) | | | | - B BOARD - |
|--------|------------------------|-----------|--------|-------|-------------|----------|--|
| | ار | Q157 | A-2 | D136 | C-2 | | • |
| _ | 7 | 0158 | 8-2 | D144 | C-2 | | _ |
| IC101 | D - 6 | Q159 | B-2 | D145 | C-2 | | |
| IC124 | 1 | 0160 | A-2 | D147 | A - 3 | | |
| TRAN | BANISISTOR | 0161 | B-2 | D149 | A-2 | | |
| | 0.0 | 0165 | C-3 | D150 | 8-2 | | |
| 0102 | 0-6 | 0167 | 8 - 3 | D155 | A-2 | > | |
| 0103 | 1 | Ω168 | 8-3 | D158 | A-2 | T | |
| 2105 | 0 - 5 | 0170 | 8-3 | D159 | B - 1 | | |
| 0106 | D-7 | 0172 | 8-3 | D160 | 8 -
8 | | |
| 0107 | C - 4 | 0173 | C-3 | D161 | 8 - 8 | | 1 0 T 1 197 |
| 2108 | C - 5 | 0174 | 8-2 | D170 | D-8 | | |
| 0112 | C-9 | 0175 | 8-3 | D185 | C-9 | | - EXTREM 6 |
| 0113 | B-9 | 0177 | Α-3 | D186 | D - 5 | | |
| 0114 | C-9 | Q178 | m
U | D187 | D-9 | | |
| 0116 | C-9 | 0179 | Α- 3 | D285 | C-7 | | TESTER O |
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| 0118 | C-3 | 0192 | A - 9 | D341 | 8-9 | œ | |
| 0120 | D-3 | 0194 | A - 9 | VARI | VARIARI F | | |
| 0122 | D-3 | 0195 | A - 9 | | 1 5 | | |
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| 0125 | E - 2 | 0201 | B - 5 | RV101 | D-9 | | |
| 0126 | E-2 | Ω202 | 8
5 | RV102 | D-9 | | |
| 0127 | E-2 | 0203 | ω
Θ | RV103 | C-3 | ٠ | |
| 0128 | E-2 | Ω209 | A - 1 | RV104 | D-2 | | |
| 0129 | E-2 | Ω210 | 8 - 1 | RV105 | E-3 | | 一直の土地の |
| 0130 | D - 3 | 0211 | 8 - 1 | RV106 | m - ω | | |
| 0131 | 0-1 | 2 | וססס | RV107 | D-3 | | |
| 2133 |) | 2 | ר | RV108 | C - 2 | | |
| | | | | | | | |



68

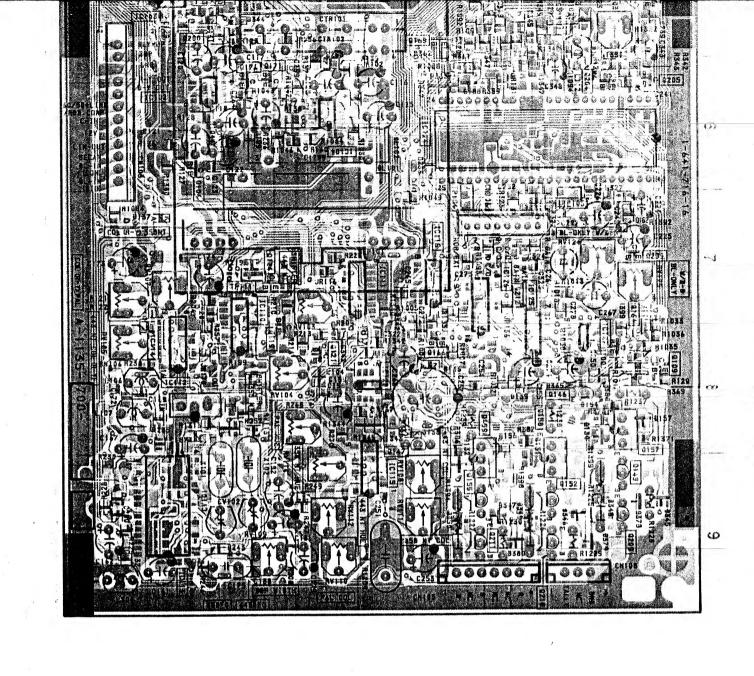
67

 $\mathbb{B}(2/2)$ board

1

0133 0134 0135 0139 0140 0142 0143 0144 0145 0146 0147 0148 0149 0153 0153

Schematic diagram



6-5. SEMICONDUCTORS

0 0 0

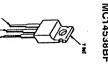








CXA1214P

















68





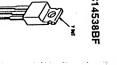






CXA1478S

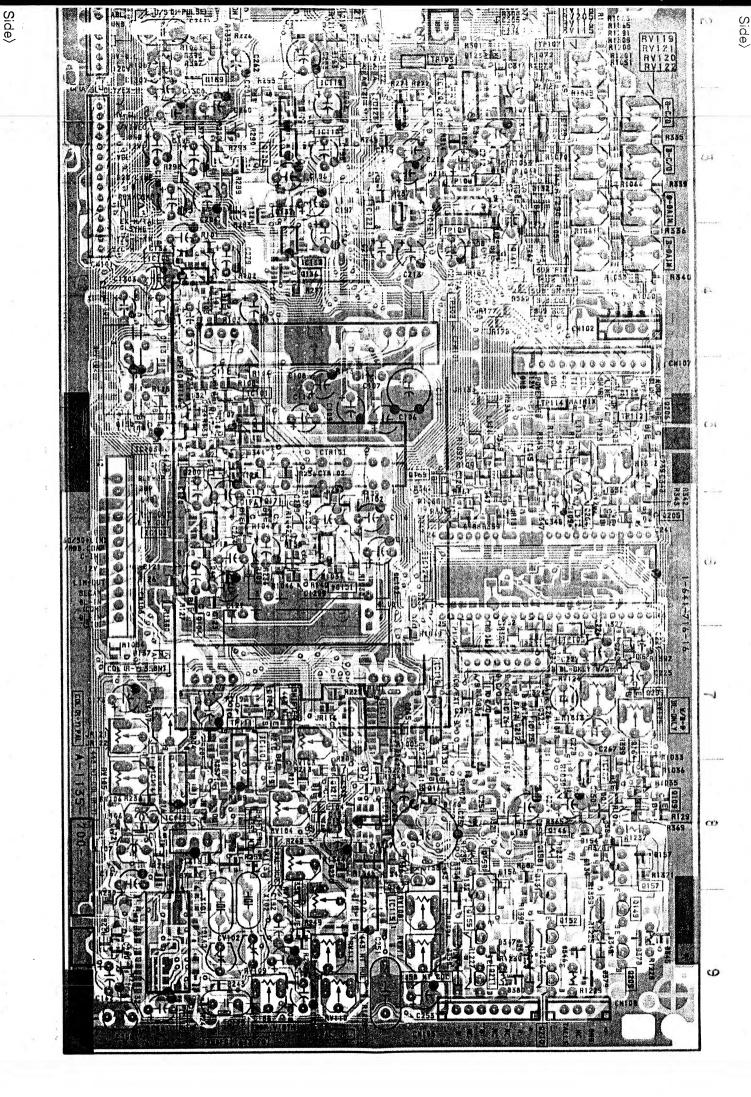




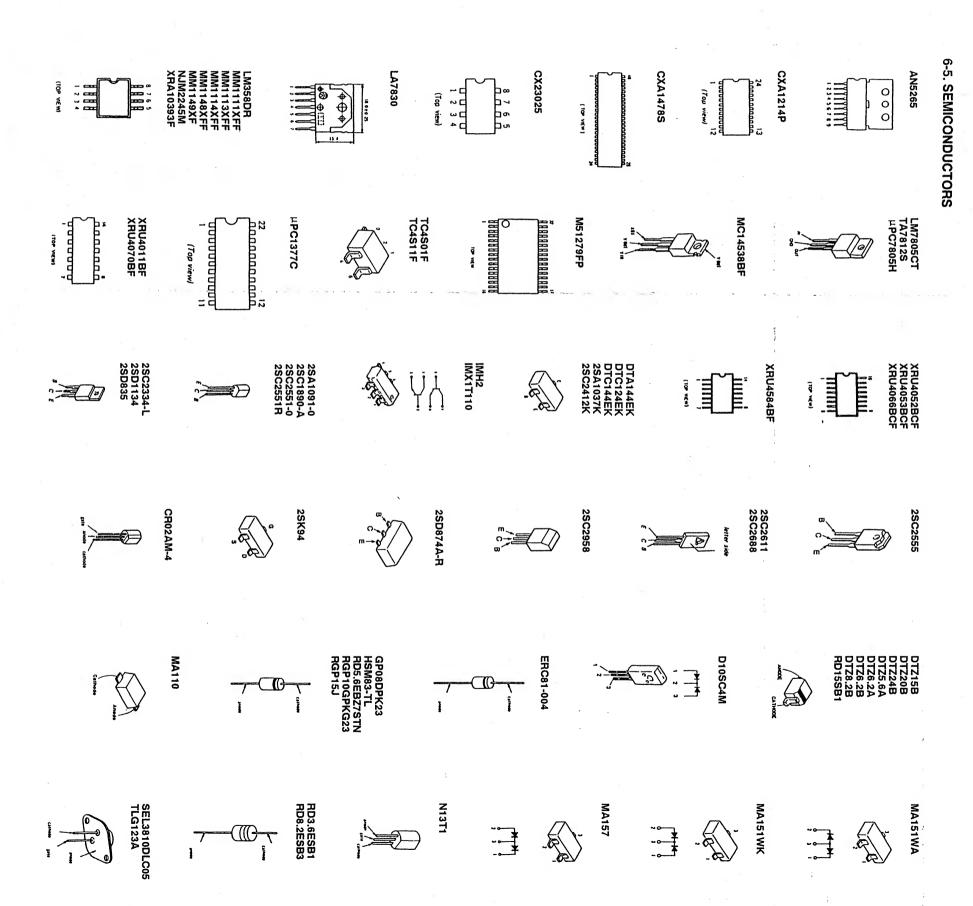




68



: Pattern from the side which : Pattern of the rear side.



70 —

SECTION 7 EXPLODED VIEWS

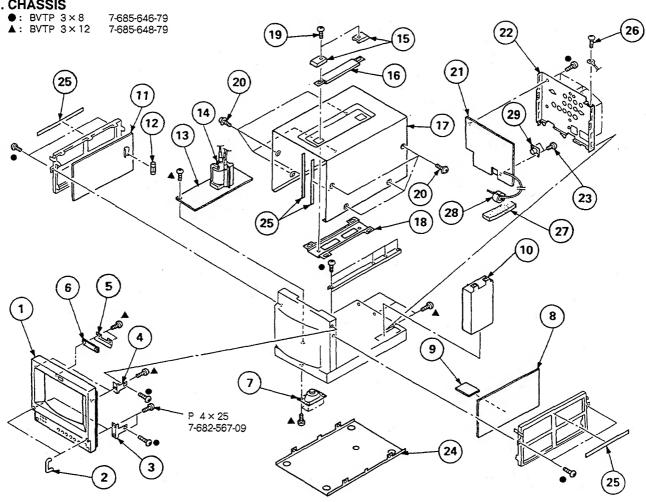
NOTE:

- Items with on part number and on description are not stocked because they are seldom required for routine service.

 The construction parts of an assembled part are indicated with a collation
- number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

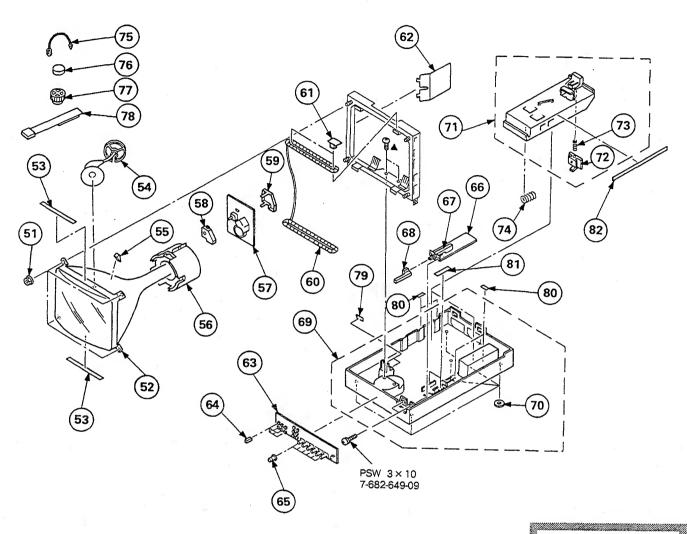
7-1. CHASSIS



| REF.NO. PART NO. | DESCRIPTION REMARK | REF.NO. PART NO. | DESCRIPTION | | REMARK |
|--|--|---|---|--------|--------|
| 2 4-037-569-01 | BEZEL ASSY (PVM-9044QM)
BEZEL ASSY (PVM-9041QM)
HANDLE, PROTECTOR
BRACKET (L), BEZEL
BRACKET (U), BEZEL | 15 4-034-847-01
16 3-419-372-31
17 *4-034-867-01
18 *X-4030-273-1
19 4-035-452-01 | | HANDLE | |
| 6 *A-1390-276-A
7 1-544-252-11
8 *A-1135-716-A | PLATE, LIGHT INTERCEPTION X BOARD, CMOPLET SPEAKER B BOARD, COMPLETE S BOARD, COMPLETE | 21 | SCREW (CLAW) (4X6),
QA BOARD, COMPLETE
CHASSIS, A
SCREW (M2.6X.6)
CABINET, BOTTOM | CASE | |
| 11 | SWITCHING REGULATOR (SOPS-1021(A)) D BOARD, COMPLETE FUSE (H.B.C.) (5.0A/250V) P BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK | 25 *4-035-691-01
26 4-389-025-01
27 *4-036-058-01
28 1-941-913-02
29 1-941-866-12 | SCREW (M4X8) (EXT TOO
SPONGE
CORE ASSY, FERRITE | | |

7-2. PICTURE TUBE

▲: BVTP 3×12 7-685-648-79



The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

| REF. N | O. PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|----------------------------|---|--|------------------------------|--------|----------------------------|---|---|--------|
| 51
52
52
53
54 | 4-304-511-00
& 8-737-154-05
& 8-737-651-05
4-035-332-01
*4-034-856-01 | PICTURE TUBE (09NDX) PICTURE TUBE (09FX) | (PVM-9041QM)
(PVM-9044QM) | | 70
71
72
73
74 | 4-034-840-01
*X-4030-163-1
4-034-861-01
4-876-347-01
3-669-594-00 | | 72,73 |
| 55
56
57
58
59 | 4-309-369-00
& 1-451-319-22
*A-1331-183-A
*4-376-133-11
*4-376-132-11 | DEFLECTION YOKE (Y9FX
CA BOARD, COMPLETE
COVER (MAIN), CV VOL | (C) | | 75
76
77
78
79 | 4-308-870-00
1-452-126-11
1-452-094-00
X-4308-815-0
*4-036-047-02 | MAGNÉT
MAGNET, ROTATABLE DISK; 15MM ∲
PERMALLOY ASSY, CONVERGENCE | |
| 60
61
62
63
64 | ∆ 1-426-043-12
4-380-534-01
*4-034-850-01
*A-1371-782-A
4-034-849-01 | INSULATOR | | | 80
81
82 | 3-839-640-00
3-831-441-11
*4-035-691-01 | CUSHION (F) | |
| 65
66
67
68
69 | X-4030-162-2
*A-1241-070-A
1-692-050-11
4-034-841-11
*X-4030-166-1 | KNOB ASSY, CONTROL
FA BOARD, COMPLETE
SWITCH, PUSH (AC POWE
BUTTOM, POWER SWICH
CHASSIS ASSY, BOTTOM | R) (1KEY) | 70 | | | | |

SECTION 8 ELECTRICAL PARTS LIST



NOTE:

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS COILS
• MF: μF, PF: μμF
• MMH: mH, UH: μH

- The components identified by

 in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

 Should replacement be required, replace only with the value originally used.
- There are some cases the reference number on one board overlaps on the other board.
 Therefore, when ordering parts by the reference number, please include the board name

| | | | | | | name. | | | |
|--------------------------------------|--|---|---|------------------------------------|---|--|---|---|--|
| | | | | | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
| | *A-1135-716-A | B BOARD, COMPL | ETE
*** | | | 1-163-121-00
1-163-101-00
1-163-131-00
1-126-157-11 | CERAMIC CHIP 150PF
CERAMIC CHIP 22PF
CERAMIC CHIP 390PF
ELECT 10MF | 5%
5%
5%
20% | 50V
50V
50V
16V |
| BPF101
BPF102 | 1-236-363-11
1-236-364-11 | FILTER, BAND PA | SS
SS | | C147
C148
C149
C150
C151 | 1-163-022-00 | CERAMIC CHIP 0.012MF | 10%
20% | 50V
50V
50V
16V
50V |
| C101
C102
C103
C104
C105 | 1-124-589-11
1-163-031-11
1-126-157-11
1-163-031-11
1-163-031-11 | ELECT 47 CERAMIC CHIP O. ELECT 10 CERAMIC CHIP O. CERAMIC CHIP O. | MF 20% 01MF 20% 01MF 20% 01MF 01MF | 16V
50V
16V
50V
50V | | | | | 50V
50V
50V
50V
25V |
| C106
C107
C108
C109
C110 | 1-124-477-11
1-163-031-11
1-124-477-11
1-124-477-11
1-124-120-11 | ELECT 47 CERAMIC CHIP 0. ELECT 47 ELECT 47 ELECT 22 | MF 20%
01MF
MF 20%
MF 20%
0MF 20% | 16V
50V
16V
16V
16V | C161 | 1-124-902-00 | ELECT 0.47MF | 20% | 50V
16V
50V
50V
50V |
| C111
C112
C113
C114
C115 | 1-163-031-11
1-163-031-11
1-163-031-11
1-124-477-11 | CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O. ELECT 47 | 01MF
01MF
01MF
MF 20% | 50V
50V
50V
16V
50V | C163
C164
C165
C166 | 1-163-809-11
1-163-809-11
1-163-009-11
1-163-031-11 | CERAMIC CHIP 0.047MF
CERAMIC CHIP 0.047MF
CERAMIC CHIP 0.001MF
CERAMIC CHIP 0.01MF | 10%
10%
10% | 50V
25V
25V
50V
50V |
| C116
C117
C118
C119
C120 | 1-124-589-11
1-126-154-11
1-126-154-11
1-163-031-11
1-126-154-11 | ELECT 47 ELECT 47 ELECT 47 CERAMIC CHIP 0. ELECT 47 | MF 20%
MF 20%
MF 20%
O1MF
MF 20% | 16V
6.3V
6.3V
50V
6.3V | C168
C169
C170
C171 | 1-163-243-11
1-163-129-00
1-163-243-11 | CERAMIC CHIP 47PF
CERAMIC CHIP 330PF
CERAMIC CHIP 47PF | 5%
5%
5% | 16V
50V
50V
50V
50V |
| C121
C122
C123
C124
C125 | 1-126-154-11
1-124-477-11
1-163-031-11
1-163-031-11
1-126-154-11 | ELECT 47 ELECT 47 CERAMIC CHIP 0. CERAMIC CHIP 0. | MF 20%
MF 20%
01MF
01MF | 50V
50V | | | | | 50V
16V
16V
50V
50V |
| C126
C127
C128
C129
C130 | 1-163-031-11
1-126-154-11
1-126-154-11
1-163-031-11 | CERAMIC CHIP O. ELECT 47 ELECT 47 CERAMIC CHIP O. CERAMIC CHIP O. | 01MF
MF 20%
MF 20%
01MF | 50V
6.3V
6.3V
50V | | 1-163-031-11
1-163-031-11
1-126-160-11
1-163-031-11
1-126-154-11 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF BLECT 1MF CERAMIC CHIP 0.01MF BLECT 47MF | 20%
20% | 50V
50V
50V
50V
6.3V |
| C131
C132
C133
C134 | 1-163-031-11
1-124-589-11
1-124-589-11
1-163-275-11 | CERAMIC CHIP O. ELECT 47 CERAMIC CHIP O. | 01MF
MF 20%
MF 20%
001MF 5% | 50V
16V
16V
50V | C182
C183
C184
C185
C186 | 1-126-163-11
1-164-232-11
1-163-031-11
1-163-031-11
1-163-099-00 | ELECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 18PF | 20%
10%
5% | 16V
50V
50V
50V
50V |
| C137
C138
C139
C140 | 1-163-249-11
1-124-589-11
1-163-031-11
1-163-205-00 | CERAMIC CHIP 82 ELECT 47 CERAMIC CHIP 0. CERAMIC CHIP 0. | PF 5%
MF 20%
01MF
001MF 5% | 50V
16V
50V
50V | C187
C188
C189
C190
C191 | 1-163-031-11
1-163-031-11
1-163-035-00
1-163-121-00
1-163-031-11 | CERAMIC CHIP 0.01MF
CERAMIC CHIP 0.01MF
CERAMIC CHIP 0.047MF
CERAMIC CHIP 150PF
CERAMIC CHIP 0.01MF | 5% | 50V
50V
50V
50V
50V |
| C142 | | | | 50V | C192
C193 | 1-163-031-11
1-124-589-11 | CERAMIC CHIP 0.01MF
ELECT 47MF | 20% | 50V
16V |
| | BPF101
BPF102
C101
C102
C103
C104
C105
C106
C107
C108
C109
C110
C111
C112
C113
C114
C115
C116
C117
C118
C119
C120
C121
C122
C123
C124
C125
C126
C127
C128
C129
C130
C121
C121
C121
C122
C123
C124
C125
C126
C127
C128
C129
C120
C121
C121
C121
C121
C122
C123
C124
C125
C126
C127
C128
C129
C120
C121
C121
C121
C121
C122
C123
C124
C125
C127
C128
C129
C120
C121
C121
C121
C121
C121
C121
C122
C123
C124
C125
C127
C128
C129
C120
C121
C121
C121
C121
C122
C123
C124
C125
C127
C128
C129
C129
C120
C121
C121
C121
C121
C122
C123
C124
C125
C127
C128
C129
C129
C120
C121
C121
C121
C121
C121
C121
C121 | *A-1135-716-A *A-1135-716-A <pre></pre> | *A-1135-716-A B BOARD, COMPL ************************************ | **A-1135-716-A | *A-1135-716-A B BOARD, COMPLETE *********************************** | **A-1135-716-A B BOARD, COMPLETE *********************************** | #A-1135-716-A B BOARD, COMPLETE FILTER> PFILTER> PFI01 1-236-363-11 FILTER, BAND PASS | #A-1135-716-A B BOARD, COMPLETE ********************************** | #A-1135-716-A B BOARD, COMPLETE C144 1-163-101-00 CERANIC CHIP 150PF 5% C145 1-163-101-00 CERANIC CHIP 20PF 5% C145 1-163-101-00 CERANIC CHIP 20PF 5% C146 1-126-137-10 CERANIC CHIP 20PF 5% C146 1-126-29-11 CE |



| REF.NO. PART NO. | DESCRIPTION | | REMARK | REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---------------------------------|----------------------------------|--|---|---|--|---------------------------------|--|
| C194 1-124-589-
C195 1-124-589-
C196 1-124-589-
C197 1-124-589-
C198 1-124-589- | 11 ELECT 47MF
11 ELECT 47MF
11 ELECT 47MF
11 ELECT 47MF
11 ELECT 47MF | 20%
20%
20%
20%
20% | 16V
16V
16V
16V
16V | C261
C262
C264
C265 | 1-137-193-11
1-124-465-00
1-163-123-00
1-163-129-00 | FILM ELECT CERAMIC CHIP CERAMIC CHIP | 0.39MF
0.47MF
180PF | 20%
5%
5% | 50V
50V
50V |
| C199 1-124-589-
C202 1-124-589-
C203 1-124-589-
C204 1-124-589-
C205 1-163-101- | 11 ELECT 47MF 11 ELECT 47MF 11 ELECT 47MF 11 ELECT 47MF 00 CERAMIC CHIP 22PF | 20%
20%
20%
20%
5% | 16V
16V
16V
16V
50V | C266
C267
C268
C269
C270 | 1-126-320-11
1-126-320-11
1-124-477-11
1-164-004-11
1-164-004-11
1-163-809-11 | ELECT ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 10MF
10MF
47MF
0.1MF
0.1MF | 20%
20%
20%
10%
10% | 16V
16V
25V
25V
25V
25V |
| C206 1-164-298-
C207 1-164-298-
C208 1-163-101-
C209 1-164-004-
C210 1-124-589- | II CERAMIC CHIP 0.15MF 11 CERAMIC CHIP 0.15MF 00 CERAMIC CHIP 22PF 11 CERAMIC CHIP 0.1MF 11 ELECT 47MF | | 25V
25V
50V
25V
16V | C271
C272
C273
C274
C275
C277 | 1-163-129-00
1-163-129-00
1-124-477-11
1-163-119-00
1-163-097-00
1-163-809-11 | CERAMIC CHIP | 330PF | 10%
5%
5%
20%
5% | 50V
50V
16V
50V
50V |
| C211 1-124-589-
C212 1-124-589-
C213 1-124-589-
C214 1-126-157-
C215 1-126-157- | 11 ELECT 47MF 11 ELECT 47MF 11 ELECT 10MF 11 ELECT 10MF | | 16V
16V
16V
16V
16V | C278
C279
C280
C281
C282 | 1-163-809-11
1-126-157-11
1-163-117-00
1-163-031-11
1-163-031-11
1-163-031-11 | | | | 16V
50V
50V
50V |
| | 11 ELECT 10MF 11 CERAMIC CHIP 0.01MF 11 CERAMIC CHIP 0.15MF 11 CERAMIC CHIP 0.001MF 11 CERAMIC CHIP 0.01MF | | 16V
50V
25V
50V
50V | C283
C299
C300
C301
C302 | 1-163-031-11
1-163-031-11
1-163-031-11
1-126-157-11
1-163-809-11
1-124-589-11 | | 0.01MF
10MF
0.047MF | | 50V
50V
16V
25V
16V |
| | 11 ELECT 1MF 00 CERAMIC CHIP 10PF 11 CERAMIC CHIP 0.01MF 11 ELECT 47MF 11 CERAMIC CHIP 0.01MF | | 50V
50V
50V
16V
50V | C303
C304
C305
C306
C306
C307 | 1-126-157-11
1-163-125-00
1-124-257-00
1-163-115-00 | ELECT | 10MF
220PF
2.2MF
82PF | 20%
5%
20%
5% | 16V
50V
50V
50V
50V |
| C227 1-163-038-
C228 1-163-986-
C229 1-163-031-
C230 1-163-038-
C231 1-163-986- | OO CERAMIC CHIP 0.1MF OO CERAMIC CHIP 0.027MF 11 CERAMIC CHIP 0.01MF OO CERAMIC CHIP 0.1MF OO CERAMIC CHIP 0.027MF | 10%
10% | 25V
25V
50V
25V
25V | C308
C309
C310
C312
C312
C313 | 1-164-004-11 | CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP | 0.1MF
0.1MF
0.1MF | 10%
10%
10% | 25V
25V
25V
50V
50V |
| C232 1-163-031-
C233 1-163-031-
C234 1-163-038-
C235 1-163-986-
C236 1-163-031- | 11 CERAMIC CHIP 0.01MF 11 CERAMIC CHIP 0.01MF 00 CERAMIC CHIP 0.1MF 00 CERAMIC CHIP 0.027MF 11 CERAMIC CHIP 0.01MF | 10% | 50V
50V
25V
25V
50V | C314
C315
C316
C317
C317
C318 | 1-126-157-11 | CERAMIC CHIP
ELECT
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP | Tom | 20% | 25V
16V
50V
50V |
| C240 1-163-809- | 11 CERAMIC CHIP 0.01MF 11 CERAMIC CHIP 0.22MF 11 CERAMIC CHIP 0.047MF 11 CERAMIC CHIP 0.047MF 11 CERAMIC CHIP 0.047MF | 10%
10%
10%
10% | 50V
25V
25V
25V
25V | C319
C320
C321
C322
C324 | 1-163-095-00 | CERAMIC CHIP | 12PF
150PF
150PF | 5% | 50V
50V
50V
50V
50V |
| C243 1-163-031-
C244 1-163-103-
C245 1-163-105- | OO CERAMIC CHIP 68PF 11 CERAMIC CHIP 0.01MF 00 CERAMIC CHIP 27PF 00 CERAMIC CHIP 33PF 11 CERAMIC CHIP 0.047MF | 5%
5%
10% | 50V
50V
50V
50V
25V | C340
C344
C345
C346
C347 | 1-163-205-00
1-163-092-00
1-163-109-00
1-163-109-00
1-163-109-00 | CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP | 0.001MF
9PF
47PF
47PF | 5%
0.25PF
5%
5%
5% | 50V |
| C248 1-163-809-
C249 1-126-101- | 00 CERAMIC CHIP 0.0047MF | 10%
10%
20%
10%
10% | 25V
25V
16V
50V
200V | C1293
C1294
C1295
C1296
C1297 | 1-163-119-00
1-163-119-00
1-163-119-00
1-163-115-00
1-163-103-00 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 120PF
120PF
120PF
82PF | 5%
5%
5% | 50V
50V
50V
50V
50V |
| C252 1-123-935-
C253 1-124-477-
C254 1-163-031-
C255 1-124-477-
C256 1-163-129- | 11 ELECT 47MF
11 CERAMIC CHIP 0.01MF
11 ELECT 47MF | 20%
20%
20%
5% | 160V
16V
50V
16V
50V | C1298
C1299
C1300
C1301
C1302 | 1-163-113-00
1-163-093-00
1-126-160-11
1-126-160-11 | CERAMIC CHIP
CERAMIC CHIP
ELECT
ELECT
ELECT | 68PF | 5%
5%
5%
20%
20% | 50V
50V
50V
50V
50V |
| C257 1-163-129-
C258 1-163-129-
C259 1-163-031-
C260 1-124-465- | OO CERAMIC CHIP 330PF 11 CERAMIC CHIP 0.01MF | 5%
5%
20% | 50V
50V
50V
50V | | 1-126-160-11
1-126-160-11
<fil< td=""><td>ELECT</td><td>imr
imf</td><td>20%
20%</td><td>50V
50V</td></fil<> | ELECT | imr
imf | 20%
20% | 50V
50V |



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|----------------------|--|---|--------|-------------------------|--|---|--------|
| CFM101 | 1-464-880-11 | | | D151 | 8-719-404-46 | DIODE MA110 | |
| | <con< td=""><td>NECTOR></td><td></td><td>D153
D154</td><td>8-719-977-20
8-719-404-46</td><td>DIODE MA110</td><td></td></con<> | NECTOR> | | D153
D154 | 8-719-977-20
8-719-404-46 | DIODE MA110 | |
| CN101
CN102 | 1-506-480-11
*1-564-506-11
+1-565-503-11 | PIN, CONNECTOR 15P PLUG, CONNECTOR 3P CONNECTOR BOARD 13P | | D156
D157 | 8-719-404-46
8-719-404-46
8-719-901-83 | DIODE MATTO
DIODE MATTO
DIODE 1883 | |
| CN104
CN105 | *1-564-011-11
*1-564-509-11 | PIN, CONNECTOR 12P
PLUG, CONNECTOR 6P | | D158 | 8-719-901-83
8-719-901-83 | DIODE 1SS83 | |
| CN106
CN107 | 1-506-473-11
1-506-478-11
+1-564-506-11 | PILTER BLUCK, COM (CFB-2) NECTOR> PIN, CONNECTOR 15P PLUG, CONNECTOR 3P CONNECTOR, BOARD TO BOARD 12P PIN, CONNECTOR 12P PLUG, CONNECTOR 6P PIN, CONNECTOR 8P PIN, CONNECTOR 13P PLUG, CONNECTOR 3P P MODULE> | | D161
D162 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MAILO
DIODE MAILO | |
| CN100 | -1 J04-J00-11 | D MODILES | | D170
D185
D186 | 8-719-404-46
8-719-104-34
8-719-801-78 | DIODE 1S2836 | |
| CTR101 | 1-236-366-11 | MODULE, TRAP | | D187
D188 | 8-719-801-76
8-719-800-76
8-719-800-76 | | |
| 011102 | 1 200 000 11 | MMED> | | D191
D285 | 8-719-104-34
8-719-404-46
8-719-404-46 | DIODE MA110 | |
| CV101 | 1-141-418-11 | P MODULE> MODULE, TRAP MODULE, TRAP MMER> CAP, ADJ CAP, ADJ | | D289
D341
D342 | 8-719-404-46
8-719-104-34 | DIODE MA110 | |
| C1102 | <dio< td=""><td>DRS</td><td>•</td><td>D343
D344
D345</td><td>8-719-800-76
8-719-105-99
8-719-901-83</td><td>DIODE RD6.2M-B1</td><td></td></dio<> | DRS | • | D343
D344
D345 | 8-719-800-76
8-719-105-99
8-719-901-83 | DIODE RD6.2M-B1 | |
| D103
D104 | 8-719-404-46
8-719-404-46 | DIODE MAILO | | D346
D347 | 8-719-901-83
8-719-901-83 | | |
| D105
D106
D107 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110 | | D348
D349
D350 | 8-719-800-76
8-719-800-76
8-719-800-76 | DIODE 1SS226 | |
| D108
D109 | 8-719-404-46
8-719-404-46 | DIODE MA110 | | D390
D393 | 8-719-800-76
8-719-404-46 | DIODE 1SS226 | |
| D110
D111
D112 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE WALLO | | | <del< td=""><td>AY LINE></td><td></td></del<> | AY LINE> | |
| D113
D117 | 8-719-404-46
8-719-404-46 | DIODE MAILO | | DL101
DL102 | 1-415-632-11
1-415-633-11 | AY LINE>
DELAY LINE, Y
DELAY LINE, Y | |
| D120
D121
D122 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE WILLS | χ., | | <10> | | |
| D123
D125 | 8-719-404-46
8-719-404-46 | DIODE MA110 | | IC102 | 8-759-084-76
8-759-287-89
8-759-287-89 | IC MM1113XFF | |
| D126
D127
D128 | 8-719-404-46
8-719-404-46 | DIODE MAIIO
DIODE MAIIO | | IC104 | | IC MMITIAXFF
IC MMITIAXF | |
| D129
D130 | 8-719-404-46
8-719-800-76 | DIODE 1SS226 | | IC106
IC107
IC108 | 8-759-009-51
8-759-509-57
8-759-509-17 | IC MC14538BF
IC XRU4584BF
IC XRU4053BCF | |
| D131
D132
D133 | 8-719-800-76
8-719-800-76
8-719-404-46 | DIODE 1SS226
DIODE 1SS226
DIODE MA110 | | IC109
IC110 | 8-759-509-37
8-759-509-17 | IC XRU4070BF
IC XRU4053BCF | |
| D134
D135 | 8-719-404-46
8-719-404-46 | DIODE MA110 | | IC111
IC112
IC113 | 8-759-509-17
8-759-924-12
8-759-631-08 | IC XRU4053BCF
IC LM7805CT
IC M51279FP | |
| D136
D137
D138 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110
DIODE MA110 | | IC114
IC115 | 8-759-932-64
8-759-932-64 | IC BU4052BCF | |
| D139
D144 | 8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110 | | IC116
IC117
IC118 | 8-759-711-32
8-759-711-32 | IC XRU4066BCF
IC NJM2245M
IC NJM2245M | |
| D145
D146
D147 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110
DIODE MA110 | | IC119
IC120 | 8-759-711-32
8-759-509-05 | IC NJM2245M
IC XRU4066BCF | |
| D148
D149 | 8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110 | | IC123 | 8-759-998-98
8-759-998-98 | IC XRU4053BCF
IC LM358D
IC LM358D | |
| D150 | 8-719-404-46 | DIODE MA110 | | 1 10124 | 8-752-052-62 | IC CXA1478S | |



| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------------------|--|--|--------|--------|----------------------|--|--|--------|
| IC126
IC127 | 8-759-509-17
8-759-998-98 | IC XRU4066BCF
IC XRU4053BCF
IC LM358D | | | Q138
Q139
Q140 | 8-729-907-26
8-729-216-22
8-729-120-28
8-729-120-28 | TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 | |
| | <c01< td=""><td>L></td><td></td><td></td><td>Q143
Q144</td><td>8-729-120-28</td><td>TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6</td><td></td></c01<> | L> | | | Q143
Q144 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6 | |
| L101
L102
L103 | 1-410-470-11
1-410-090-41
1-412-002-31 | IC LM358D IC LM358D IC LM358D IC LM358D L> INDUCTOR 10UH INDUCTOR CHIP 4.7UH INDUCTOR CHIP 4.7UH INDUCTOR CHIP 4.7UH INDUCTOR CHIP 33UH INDUCTOR CHIP 33UH INDUCTOR CHIP 33UH INDUCTOR CHIP 27UH INDUCTOR CHIP 2.2UH INDUCTOR CHIP 1.00UH INDUCTOR CHIP 3.3UH INDUCTOR CHIP 3.0UH INDUCTOR CHIP 3.0 | | | Q146
Q147 | 8-729-255-12 | TRANSISTOR 2SC2551-0 TRANSISTOR 2SC2551-0 | |
| L104
L105 | 1-412-002-31
1-412-002-31 | INDUCTOR CHIP 4.7UH INDUCTOR CHIP 4.7UH | | | Q148
Q149
D150 | 8-729-216-22
8-729-200-17
8-729-120-28 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1091-0
TRANSISTOR 2SC1623-L516 | |
| L106
L107
L112 | 1-410-470-11
1-410-470-11
1-408-419-00 | INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 68UH | | | Q151
Q152 | 8-729-216-22
8-729-200-17 | TRANSISTOR 25A1001-0
TRANSISTOR 25C1623-L5L6
TRANSISTOR 25A1162-G
TRANSISTOR 25A1091-0 | |
| L113
L114 | 1-410-947-31
1-410-947-31 | INDUCTOR CHIP 33UH INDUCTOR CHIP 33UH | | | Q153
Q154
Q155 | 8-729-216-22 | TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1091-0 | |
| L115
L116
L117 | 1-410-947-31
1-412-011-31
1-412-011-31 | INDUCTOR CHIP 33UH INDUCTOR CHIP 27UH INDUCTOR CHIP 27UH | | | Q157
Q158 | 8-729-326-11 | TRANSISTOR 2SC2611
TRANSISTOR 2SC2611 | |
| L118
L250 | 1-412-011-31
1-410-997-31 | INDUCTOR CHIP 27UH INDUCTOR CHIP 2.2UH | | | Q159
Q160 | 8-729-120-28 | TRANSISTOR 2SC2611 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G | |
| L251
L252
L300 | 1-410-999-11
1-410-478-11
1-410-482-31 | INDUCTOR CHIP 3.3UH INDUCTOR 47UH INDUCTOR 100UH | | | Q164
Q165 | 8-729-901-01 | TRANSISTOR DTC144EK
TRANSISTOR 2SA1162-G | |
| 3300 | <tra< td=""><td>NSISTOR></td><td></td><td></td><td>Q166
Q167</td><td>8-729-216-22
8-729-216-22
8-729-216-22</td><td>TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G</td><td></td></tra<> | NSISTOR> | | | Q166
Q167 | 8-729-216-22
8-729-216-22
8-729-216-22 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G | |
| Q101
Q102 | 8-729-120-28
8-729-120-28 | TRANSISTOR 2SC1623-L5L | 6 | | Q170
Q171 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6 | |
| Q103
Q104
Q105 | 8-729-120-28
8-729-120-28
8-729-120-28 | TRANSISTOR 2SC1623-L5L TRANSISTOR 2SC1623-L5L TRANSISTOR 2SC1623-L5L | 6
6 | | Q172
Q173 | 8-729-120-28
8-729-216-22
8-729-216-22 | TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G | |
| Q106
Q107 | 8-729-120-28
8-729-120-28 | TRANSISTOR 2SC1623-L5L | 6
6 | | Q175
Q176 | 8-729-216-22 | TRANSISTOR 25A1162-G
TRANSISTOR 25A1162-G | |
| Q108
Q109
Q112 | 8-729-216-22
8-729-901-01
8-729-120-28 | TRANSISTOR 2SA1162-G
TRANSISTOR DTC144EK
TRANSISTOR 2SC1623-L5L | 6 | | Q177
Q178 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6
TRANSISTOR DTC144EK | |
| Q113
Q114 | 8-729-120-28
8-729-216-22 | TRANSISTOR 2SC1623-L5L | 6 | | Q189
Q190 | 8-729-907-26 | TRANSISTOR IMX1
TRANSISTOR 2SA1162-G | |
| Q115
Q116
Q117 | 8-729-120-28
8-729-120-28
8-729-216-22 | TRANSISTOR 2SC1623-L5L TRANSISTOR 2SC1623-L5L TRANSISTOR 2SA1162-G | 6
6 | | Q191
Q192 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6 | |
| Q118
Q119 | 8-729-120-28
8-729-216-22 | TRANSISTOR 2SC1623-L5L
TRANSISTOR 2SA1162-G | 6 | | Q194
Q195 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SA1162-G | |
| 0120
0121
0122 | 8-729-120-28 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SC1623-L5L
TRANSISTOR 2SA1162-G | 6 | | Q196
Q197
Q198 | 8-729-216-22 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G | |
| Q123
Q124 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L
TRANSISTOR 2SA1162-G | 6 | | Q199
Q200 | 8-729-216-22 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR DTA144EK | |
| Q125
Q126
Q127 | 8-729-120-28
8-729-901-01 | TRANSISTOR 2SC1623-L5L
TRANSISTOR DTC144EK
TRANSISTOR 2SA1162-G | 6 | | Q201
Q202
Q203 | 8-729-216-22
8-729-216-22 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G | |
| Q128
Q129 | 8-729-216-22 | TRANSISTOR 2SA1162-G
TRANSISTOR DTC144EK | | | Q204
Q205 | 8-729-216-22
8-729-216-22 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G | |
| Q130
Q131
Q132 | 8-729-216-22
8-729-120-28 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SC1623-L5L
TRANSISTOR 2SA1162-G | .6 | | Q206
Q208
Q209 | 8-729-216-22
8-729-216-22
8-729-255-12 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G
TRANSISTOR 2SC2551-O | |
| Q133
Q134 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L
TRANSISTOR DTC144EK | .6 | | Q210
Q211 | 8-729-255-12
8-729-255-12 | TRANSISTOR 25C2551-0
TRANSISTOR 25C2551-0 | |
| Q135
Q136
Q137 | 8-729-120-28
8-729-907-26 | TRANSISTOR DICIAGE TRANSISTOR 2SC1623-L5L TRANSISTOR IMX1 TRANSISTOR IMX1 | | | Q212
Q299 | | TRANSISTOR 2SK94-X2X3X4
TRANSISTOR 2SC1623-L5L6 | |
| 4171 | 0 127 701 20 | immoroion imar | | | | | | |



| | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|--------------------------------------|--|---|------------------------------------|----------------------------|---|--------|--------------------------------------|--|---|--|--|---|--------|
| ID 1 OF | | ISTOR> | ^ | | 1 /100 | | R170 | 1-216-033-00
1-216-089-91 | METAL GLAZE
METAL GLAZE | 220
47K
1.5K | 5%
5% | 1/10W
1/10W | |
| JR110
JR133
JR138 | 1-216-295-91
1-216-295-91
1-216-295-91
1-216-295-91
1-216-295-91 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 0
0
0
0 | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R171
R172
R173
R174
R175 | 1-216-053-00
1-216-043-00
1-216-093-00
1-216-069-00
1-216-057-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 560
68K
6.8K
2.2K
4.7K | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R101
R102
R103
R104
R105 | | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 47K
100
56K
3.3K
100 | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R176
R177
R178
R179 | 1-216-065-00
1-216-073-00
1-216-089-91
1-216-081-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 10K
47K
22K | 5%
5%
5% | 1/10W
1/10W
1/10W | |
| R106
R107
R108
R109
R110 | 1-216-065-00
1-216-025-00
1-216-113-00
1-216-065-00
1-216-049-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
100
470K
4.7K
1K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R180
R181
R182
R183
R184 | 1-216-679-11
1-216-071-00
1-216-683-11
1-216-691-11
1-216-699-11 | METAL CHIP
METAL GLAZE
METAL CHIP
METAL CHIP
METAL CHIP | 100K | 0.50%
0.50%
0.50% | 1/10W
1/10W
1/10W
1/10W | |
| R111
R112
R113
R114
R115 | 1-216-049-00 | METAL GLAZE
METAL GLAZE
CARBON
METAL GLAZE
METAL GLAZE | 3.9K
1K
47
680
3.3K | | 1/10W
1/10W
1/4W
1/10W
1/10W | F | R185
R186
R187
R188
R189 | 1-216-073-00
1-216-113-00
1-216-073-00
1-216-113-00
1-216-103-91 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 10K
470K
10K
470K
180K
270K
100K | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W | |
| R117
R118
R119
R120
R121 | | METAL GLAZE
METAL GLAZE
METAL CHIP
METAL CHIP
METAL GLAZE | 10K
100
680 | 5%
5%
0.50%
0.50% | 1/10W | | R190
R191
R192
R193 | 1-216-107-00
1-216-097-00
1-216-103-91
1-216-105-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 180K
220K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R121
R122
R123 | 1-216-083-00 | METAL GLAZE | 27K
10K | 5%
5%
5% | 1/10W
1/10W | | R194
R195
R196 | 1-216-089-91
1-216-113-00
1-216-073-00 | METAL GLAZE
METAL GLAZE | 47K
470K
10K | 5% | 1/10W
1/10W | |
| R124
R125
R126 | 1-216-073-00
1-216-073-00
1-216-083-00
1-216-093-00 | METAL GLAZE | 10K
27K
68K | 5%
5% | 1/10W
1/10W
1/10W | | R197
R198
R199 | 1-216-671-11
1-216-049-00
1-216-065-00
1-216-065-00 | METAL CHIP
METAL GLAZE
METAL GLAZE
METAL GLAZE | 6.8K
1K
4.7K | 0.50%
5%
5%
5%
5% | 1/10W
1/10W
1/10W | |
| R127
R128
R129
R130
R131 | 1-216-037-00
1-216-083-00
1-216-067-00
1-216-097-00
1-216-089-91 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 330
27K
5.6K
100K
47K | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R200
R201
R202
R203
R204 | 1-216-043-00
1-216-033-00
1-216-045-00
1-216-073-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 220
680
10K | 5%
5%
5% | 1/10W
1/10W
1/10W | |
| R132
R133
R134
R135
R136 | 1-216-057-00
1-216-079-00
1-216-645-11
1-216-645-11
1-216-091-00 | METAL GLAZE
METAL CHIP
METAL CHIP | 2.2K
18K
560 | 5% | 1/10W
1/10W
1/10W
1/10W | | R205
R206
R207
R208
R209 | 1-216-073-00
1-216-043-00
1-216-045-00
1-216-671-11
1-216-043-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL CHIP
METAL GLAZE | 10K
560
680
6.8K
560 | กรถซ | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R137
R138 | 1-216-045-00
1-216-657-11 | METAL GLAZE
METAL CHIP | | 5%
0.50% | 1/10W
1/10W | | R210
R211 | 1-216-033-00
1-216-099-00 | | 560
220
120K | | | |
| R139
R140
R141 | 1-216-079-00
1-216-653-11
1-216-063-00 | METAL GLAZE
METAL CHIP
METAL GLAZE | 3.9K | 5%
0.50%
5% | 1/10W | | R212
R213
R214
R215 | 1-216-065-00
1-216-043-00
1-216-043-00
1-216-127-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
560
560
1.8M | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | |
| R142
R143
R145
R146
R147 | 1-216-073-00
1-216-085-00
1-216-065-00
1-216-037-00
1-216-089-91 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 10K
33K
4.7K
330
47K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R216
R217
R218
R219
R220 | 1-216-043-00
1-216-033-00
1-216-295-91
1-216-043-00
1-216-043-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 560
220
0
560
560 | 5%
5%%
55%%
55%% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R148
R155
R157
R158
R160 | 1-216-671-11
1-216-655-11
1-216-679-11
1-216-677-11
1-216-065-00 | METAL CHIP
METAL CHIP
METAL CHIP
METAL CHIP
METAL GLAZE | 6.8K
1.5K
15K
12K
4.7K | 0.50%
0.50% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R221
R222
R223
R224 | 1-216-043-00
1-216-035-00
1-216-033-00
1-216-073-00
1-216-073-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 270
220
10K
10K | 5% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/10W
1/10W
1/10W
1/10W | |
| R161
R163
R164
R165
R166 | 1-216-089-91
1-216-073-00
1-216-677-11
1-216-107-00
1-208-812-11 | METAL GLAZE
METAL GLAZE
METAL CHIP
METAL GLAZE
METAL CHIP | 47K
10K
12K
270K
18K | 5%
5%
0.50%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R225
R226
R227
R228
R229 | 1-216-095-00
1-216-073-00
1-216-035-00
1-216-065-00
1-216-113-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 82K
10K
270
4.7K
470K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R167
R168 | 1-216-635-11
1-216-103-91 | METAL CHIP
METAL GLAZE | 220
180K | 0.50% | 1/10W
1/10W
1/10W | | R230
R231 | 1-216-081-00
1-216-113-00 | METAL GLAZE
METAL GLAZE | 22K
470K | 5%
5% | 1/10W
1/10W | |



| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|--------------------------------------|--|---|--------------------------------------|----------------------------------|---|--------|--|--|---|---|----------------------------------|--|--------|
| R232
R233
R234
R235
R236 | 1-216-105-00
1-216-073-00
1-216-041-00
1-216-041-00
1-216-077-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 220K
10K
470
470
15K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R303
R304
R305
R306 | 1-216-065-00
1-216-049-00
1-216-049-00
1-216-089-91 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
1K
1K
47K | 5%
5%%
5%%
5%%
5%% | 1/10W
1/10W
1/10W
1/10W | |
| R237
R238
R239
R240
R241 | 1-216-025-00
1-216-065-00
1-216-065-00
1-216-033-00
1-216-073-00 | METAL GLAZE
METAL GLAZE | 100
4.7K
4.7K
220
10K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R309
R310
R311 | 1-216-033-00
1-216-089-91
1-216-033-00
1-216-089-91 | METAL GLAZE
METAL GLAZE | 220
47K
47K
220
47K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R242
R243
R244
R245
R246 | 1-216-051-00
1-216-113-00
1-216-065-00
1-216-679-11
1-216-103-91 | | 1.2K
470K
4.7K
15K
180K | 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R312
R313
R314
R315
R316 | 1-216-089-91
1-216-033-00
1-216-113-00
1-216-105-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47K
220
47K
470K
220K
330K
220K | 555 5%%%% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R247
R248
R249
R250
R251 | 1-216-093-00
1-216-095-00
1-216-109-00
1-216-101-00
1-216-105-00 | METAL GLAZE
METAL GLAZE | 68K
82K
330K
150K
220K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R317
R318
R319
R320
R321 | 1-216-109-00
1-216-105-00
1-216-099-00
1-216-099-00
1-216-109-00 | METAL GLAZE | 220K
120K
120K
120K
560
330K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W
1/10W | |
| R252
R253
R254
R255
R256 | 1-216-101-00
1-216-101-00
1-216-033-00
1-216-061-00
1-216-107-00 | METAL GLAZE
METAL GLAZE | 150K
150K
220
3.3K
270K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R322
R323
R324
R325
R326
R328 | 1-216-109-00
1-216-109-00
1-216-097-00
1-216-113-00
1-216-073-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 330K
330K
100K
470K
10K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R258
R259
R260
R261
R262 | 1-216-041-00
1-216-073-00
1-216-025-00
1-216-035-00
1-216-097-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 470
10K
100
270
100K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R329
R330
R331
R332
R333 | 1-216-107-00
1-216-107-00
1-216-025-00
1-216-097-00
1-216-097-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 270K
220K
100
100K
100K | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R263
R264
R265
R266
R267 | 1-216-029-00
1-216-065-00
1-216-067-00
1-216-073-00
1-216-073-00 | METAL GLAZE | 150
4.7K
5.6K
10K
10K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R334
R335
R336
R337
R338 | 1-216-025-00
1-216-099-00
1-216-095-00
1-216-105-00
1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100
120K
82K
220K
100 | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R268
R269
R270
R271
R272 | 1-216-081-00
1-216-103-91
1-216-081-00
1-216-025-00
1-216-103-91 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 22K
180K
22K
100
180K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R349
R340
R341
R342
R343 | 1-216-099-00
1-216-099-00
1-216-105-00
1-216-047-00
1-216-053-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 120K
82K
220K
820
1.5K | 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R273
R275
R276
R277
R278 | 1-216-113-00
1-216-081-00
1-216-037-00
1-216-049-00
1-216-059-00 | METAL GLAZE
METAL GLAZE | 470K
22K
330
1K
2.7K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R344 | 1-216-664-11
1-216-661-11
1-216-105-00
1-216-061-00
1-216-650-11 | METAL CHIP | 3.6K
2.7K
220K
3.3K | 0.50%
0.50%
5%
5% | 1/10W | |
| R280
R281
R282
R283
R284 | 1-216-061-00
1-216-061-00
1-216-037-00
1-216-049-00
1-216-059-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.3K
3.3K
330
1K
2.7K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R350
R351
R352
R353 | 1-216-653-11
1-216-650-11
1-216-653-11
1-216-650-11 | METAL CHIP
METAL CHIP
METAL CHIP
METAL CHIP | 910
1.2K
910
1.2K
910 | 0.50%
0.50%
0.50%
0.50% | 1/10W
1/10W
1/10W
1/10W | |
| R286
R287
R288
R289
R290 | 1-216-061-00
1-216-061-00
1-216-037-00
1-216-049-00
1-216-059-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.3K
3.3K
330
1K
2.7K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R354
R355
R356
R357
R358
R359 | 1-216-653-11
1-216-113-00
1-216-113-00
1-216-095-00
1-216-113-00
1-216-081-00 | METAL CHIP
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1.2K
470K
470K
82K
470K
22K | 0.50%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W
1/10W | |
| R292
R293
R295
R296
R297 | 1-216-061-00
1-216-061-00
1-216-057-00
1-216-659-11
1-216-659-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL CHIP
METAL CHIP | 3.3K
3.3K
2.2K
2.2K
2.2K | 5%
5%
5%
0.50%
0.50% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R360
R363
R364
R365
R368 | 1-216-089-91
1-216-089-91
1-216-073-00
1-216-073-00
1-216-075-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47K
6.8K
10K
10K | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W
1/10W | |
| R298
R300
R301
R302 | 1-216-065-00
1-216-065-00
1-216-065-00
1-216-113-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
4.7K
4.7K
470K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | | R369
R370
R371 | 1-216-055-00
1-216-248-00
1-216-115-00
1-216-067-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1.8K
120K
560K
5.6K | 5%
5% | 1/10W
1/8W
1/10W
1/10W | |



| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|--|--|---|---|--|---|--------|--|--|---|---|---|--|-------------|
| R372
R374
R375
R376
R378 | 1-216-115-00
1-216-115-00
1-216-683-11
1-216-663-11
1-216-025-00 | METAL GLAZE
METAL CHIP
METAL CHIP
METAL GLAZE | 3.3K
100 | 0.50%
0.50%
5% | 1/10W
1/10W | | R1046
R1047
R1048
R1049 | 1-216-125-00
1-216-689-11
1-216-065-00
1-216-049-00
1-216-085-00 | METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE | 1.5M
39K
4.7K
1K
33K
2.7K | 0.50% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R379
R380
R381
R382
R383 | 1-216-641-11
1-208-799-11
1-216-089-91
1-216-025-00
1-216-641-11
1-208-799-11 | METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP | 5.1K
47K
100
390
5.1K | 5%
0.50%
0.50% | 1/10W
1/10W
1/10W
1/10W | | R1051
R1053
R1054
R1055 | 1-216-059-00
1-216-105-00
1-216-091-00
1-216-093-00
1-216-097-00
1-216-037-00 | METAL GLAZE | 2.7K
220K
56K
68K
100K
330 | 52 | 1/10W
1/10W
1/10W
1/10W
1/10W
1/10W | |
| R385
R386
R387
R388
R389 | 1-216-117-00
1-216-025-00
1-216-641-11
1-208-799-11
1-216-089-91
1-216-105-00 | METAL GLAZE
METAL GLAZE
METAL CHIP | 680K
100
390 | 5%
5%
0.50%
0.50% | 1/10W
1/10W
1/10W
1/10W | | R1057
R1058
R1059 | 1-216-065-00
1-216-109-00
1-216-109-00
1-216-109-00
1-216-109-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
330K
330K
330K
330K | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R391
R392
R393
R394
R397 | 1-216-081-00
1-216-113-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
CARBON | 22K
470K
33K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W
1/4W | F | R1064
R1065 | 1-216-103-91
1-216-103-91
1-216-103-91
1-216-103-91
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 180K
180K
180K
180K
10K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1002
R1003 | 1-249-434-11
1-216-073-00
1-216-073-00
1-216-047-00
1-216-055-00
1-216-061-00 | CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 470K
47K
27K
10K
10K
1.8K
3.3K
820 | 5% | 1/4W
1/10W
1/10W
1/10W
1/10W
1/10W | F | R1069
R1070
R1071 | 1-216-073-00
1-216-049-00
1-216-133-00
1-216-085-00
1-216-113-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 10K
1K
3.3M
33K
470K | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1005
R1006
R1007
R1008
R1009 | 1-216-047-00
1-216-055-00
1-216-061-00
1-216-047-00
1-216-053-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.3K
820
1.5K | 555555555555555555555555555555555555555 | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1075 | 1-216-099-00
1-216-131-11
1-216-065-00
1-216-101-00
1-216-103-91
1-216-131-11 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 120K
2.7M
4.7K
150K
180K | | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1011
R1012
R1013
R1014 | 1-216-061-00
1-216-033-00
1-216-051-00
1-216-051-00
1-216-246-91
1-216-033-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 3.3K
220
1.2K
1.2K
1.00K
220 | 55
55
55
55
55
55
55
55 | 1/10W
1/10W
1/10W
1/10W
1/8W
1/10W | | R1080
R1081
R1082
R1083
R1084
R1084 | 1-216-097-00
1-216-097-00
1-216-105-00
1-216-065-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 2.7M
100K
100K
220K
4.7K
3.9K
10K | 5%
5% | 1/10W
1/10W
1/10W
1/10W | |
| R1016
R1017
R1018
R1019 | 1-216-089-91
1-216-045-00
1-216-043-00
1-216-033-00
1-216-089-91 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 47K
680
560
220
47K
680 | | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1087
R1088
R1090 | 1-216-049-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1M
820
1K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1021
R1022
R1023
R1024
R1025
R1026 | 1-216-045-00
1-216-025-00
1-216-073-00
1-216-025-00
1-216-033-00
1-216-061-00 | METAL GLAZE | 100
10K
100
220
3.3K | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1093
R1094
R1095
R1096
R1200 | 1-216-121-00
1-216-075-00
1-216-075-00
1-216-075-00
1-216-699-11 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP | | 5%
5%
5%
5%
5.50% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1027
R1028
R1029
R1030 | 1-216-101-00
1-216-033-00
1-216-061-00
1-216-089-91
1-216-033-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 150K
220
3.3K
47K
220 | 5% % % % % % % % % % % % % % % % % % % | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1201
R1207
R1208
R1220
R1221
R1222 | 1-218-754-11
1-216-061-00
1-216-065-00
1-216-055-00
1-216-055-00
1-216-055-00 | METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 120K
3.3K
4.7K
1.8K
1.8K
1.8K | 0.50%
5%
5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1032
R1033
R1035
R1036
R1038 | 1-216-061-00
1-216-081-00
1-216-073-00
1-216-089-91
1-216-081-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.3K
22K
10K
47K
22K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1223
R1225
R1226
R1227
R1228
R1229 | 1-216-689-11
1-215-876-00
1-215-876-00
1-215-876-00
1-249-421-11
1-249-421-11 | METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE CARBON CARBON | 39K
15K
15K
15K
2.2K
2.2K | 5%%
5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/10W
1W
1W
1W
1/4W | e
e
e |
| | 1-216-025-00
1-216-047-00
1-216-057-00
1-216-061-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 100
820
2.2K
3.3K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | | R1230
R1231 | 1-249-421-11
1-249-421-11
1-216-029-00
1-216-029-00 | CARBON METAL GLAZE METAL GLAZE | 2.2K
2.2K
150
150 | 5%
5%
5% | | r
F |

VM-9041QM/9044QM



The components identified by shading and mark \(\Lambda\) are critical for safety.

Replace only with part number specified.

| REF.NO. PART | NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTIO | N
- | | REMARK |
|--|--|---|-------------------------------------|----------------------------|---|--------|--------------------------------------|--|--|--|---|-------------------------------------|
| R1233 1-21
R1234 1-21
R1235 1-21
R1236 1-21
R1237 1-24 | 6-029-00 !
6-029-00 !
6-029-00 ! | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
CARBON | 150
150
150
150
1.5K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/4W | | R1352
R1353
R1371 | 1-216-057-00 | | 10K 5%
560K 5%
2.2K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R1238 1-24
R1239 1-24
R1270 1-21
R1271 1-21
R1280 1-21 | 9-419-11 (
6-079-00 1
6-057-00 1 | CARBON
CARBON
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1.5K
1.5K
18K
2.2K
330K | 5%
5%
5%
5% | 1/4W
1/4W
1/10W
1/10W
1/10W | F | R1373 | 1-216-057-00
1-216-057-00
1-216-089-91
1-216-095-00 | METAL GLAZE | | 1/10W
1/10W
1/10W | |
| R1288 1-21
R1290 1-21
R1291 1-21
R1294 1-21
R1295 1-21 | 6-071-00
6-081-00
6-069-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 220K
8.2K
22K
6.8K
330K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | RV103 | 1-241-763-11
1-241-763-11
1-241-759-21 | RES, ADJ, C | ERMET 4.7K
ERMET 4.7K
ARBON 220 | | |
| R1297 1-21
R1298 1-21
R1299 1-21 | 6-071-00 1
6-071-00 1
6-071-00 1 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 82K
8.2K
8.2K
8.2K
47K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | RV105
RV106
RV107
RV108 | 1-241-759-21
1-241-761-11
1-241-761-11
1-241-761-11
1-241-630-11 | RES, ADJ, C
RES, ADJ, C
RES, ADJ, C
RES, ADJ, C | ARBON 1K
ARBON 1K
ARBON 1K
ARBON 10K | | |
| R1302 1-21 | 6-113-00
6-113-00
6-091-00 | | 4.7K
470K
470K
56K
68K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | RV110
RV111
RV112
RV113 | 1-241-765-11
1-241-630-11
1-241-630-11
1-238-019-11
1-238-019-11 | RES, ADJ, C
RES, ADJ, C
RES, ADJ, C
RES, ADJ, C | ARBON 10K ARBON 10K ARBON 47K ARBON 47K | | |
| R1306 1-21
R1307 1-21
R1308 1-21
R1309 1-21
R1310 1-21 | 6-041-00
6-041-00
6-063-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.9K
470
470
3.9K
820K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | RV115
RV116
RV118
RV119 | 1-241-765-11
1-241-765-11
1-241-765-11 | RES, ADJ, C
RES, ADJ, C
RES, ADJ, C
RES, ADJ, C | ARBON 22K
Arbon 22K
Arbon 22K
Arbon 22K | | |
| R1313 1-2
R1314 1-2
R1315 1-2
R1320 1-2
R1321 1-2 | .6-053-00
.6-077-00
.6-083-00 | | 150K
1.5K
15K
27K
68K | | 1/10W
1/10W
1/10W
1/10W
1/10W | | RV121
RV122
RV123
RV124 | 1-241-765-11
1-241-765-11
1-241-765-11
1-241-628-11
1-241-761-11 | RES, ADJ, C
RES, ADJ, C
RES, ADJ, C
RES, ADJ, C | ARBON 22K
ARBON 22K
ARBON 2.2K
ARBON 1K | | |
| R1322 1-2
R1323 1-2
R1324 1-2
R1325 1-2
R1326 1-2 | 6-057-00
6-121-00
6-085-00 | METAL GLAZE
METAL GLAZE | 330
2.2K
1M
33K
4.7K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | RV205 | 1-241-761-11
1-241-765-11
<mod< td=""><td>RES, ADJ, C
ULE></td><td>ARBON 1K
ARBON 22K</td><td></td><td></td></mod<> | RES, ADJ, C
ULE> | ARBON 1K
ARBON 22K | | |
| R1328 1-2 | 6-099-00
6-093-00
6-063-00 | | 120K
120K
68K
3.9K
1.2K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | SEP101 | 1-808-654-11 <cry 1-527-722-00<="" td=""><td>STAL></td><td>CRYSTAL</td><td></td><td></td></cry> | STAL> | CRYSTAL | | |
| R1333 1-2 | 16-057-00
16-055-00
16-035-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 2.2K
2.2K
1.8K
270
47K | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | | 1-577-259-11
*********************************** | | ************************************** | ****** | ****** |
| | 16-049-00
16-097-00
16-097-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 470K
1K
100K
100K
390K | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | C801
C802 | 1-126-104-11
1-162-318-11 | ACITOR> ELECT CERAMIC | 470MF
0.001MF | 20%
10% | 35V
500V |
| R1342 1-2
R1343 1-2
R1344 1-2
R1345 1-2 | 16-694-11
16-121-00
16-073-00
16-055-00 | METAL CHIP
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 62K
1M
10K
1.8K
820 | | 1/10W
1/10W
1/10W
1/10W
1/10W | | C803
C804
C806
C807
C808 | 1-102-228-00
1-123-935-00
1-124-480-11
1-102-228-00
1-106-367-00 | CERAMIC
ELECT
ELECT
CERAMIC
MYLAR | 470PF
33MF
470MF
470PF
0.01MF | 10%
20%
20%
20%
10% | 500V
160V
25V
500V
100V |
| R1347 1-2
R1348 1-2
R1349 1-2 | 16-073-00
16-073-00
16-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 10K
10K
10K
10K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | | C809
C810
C811 A | 1-106-375-12
1-162-318-11
1-137-544-91
\(\Lambda\) 1-137-545-91 | MYLAR
CERAMIC
FILM | 0.022MF
0.001MF
0.01MF
0.013MF | 10%
10%
3% | 100V
500V
600V |

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

| P | FA | QA |
|---|----|----|
|---|----|----|

| | | | | | | | | | | نــالـ |
|--|---|--|--------------------------------|-------------------------------------|--------------------------------------|--|--|---|--------------------------------------|---------------------------------|
| REF.NO. PART NO. | DESCRIPTION | N
- | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
| C813 1-106-385-00
C814 1-106-383-00
C815 1-124-916-11
C816 1-124-798-11
C817 1-130-800-00 | MYLAR
ELECT
ELECT
FILM | 0.056MF
0.047MF
22MF
1MF
2.2MF | 5%
10%
20%
20%
10% | 200V
100V
50V
160V
250V | R807
R808
R809
R810
R811 | 1-216-425-11
1-202-846-00
1-216-089-91
1-249-421-11
1-216-049-00 | METAL OXIDE
SOLID
METAL GLAZE
CARBON
METAL GLAZE | 56 5%
470K 20%
47K 5%
2.2K 5%
1K 5% | 1W
1/2W
1/10W
1/4W
1/10W | F |
| C818 1-102-228-00
C819 1-162-116-00
C820 1-162-116-00
C821 1-162-116-00
C825 1-123-024-21 | CERAMIC
CERAMIC
CERAMIC | 470PF
680PF
680PF
680PF
33MF | 10%
10%
10%
10% | 500V
2KV
2KV
2KV
160V | R812
R813
R814 | 1-249-439-11
1-249-414-11
1-249-377-11 | CARBON | 68K 5%
560 5%
0.47 5% | 1/4W
1/4W
1/4W | F |
| C880 1-163-031-11 | CERAMIC CHI | P 0.01MF | | 50V | ! | <var< td=""><td>IABLE RESISTOR</td><td>>_</td><td></td><td></td></var<> | IABLE RESISTOR | >_ | | |
| <c0< td=""><td>NNECTOR></td><td></td><td></td><td></td><td>RV801</td><td>1-223-102-00</td><td>RES, ADJ, WIR</td><td>EWOUND 120</td><td></td><td></td></c0<> | NNECTOR> | | | | RV801 | 1-223-102-00 | RES, ADJ, WIR | EWOUND 120 | | |
| CN801 1-564-595-11 | PLUG, CONNE | CTOR 14P | | | İ | <tra< td=""><td>NSFORMER></td><td></td><td></td><td></td></tra<> | NSFORMER> | | | |
| CN802 *1-508-766-00
CN803 *1-564-508-11
CN805 *1-560-123-00 | PLUG. CONNE | CTOR 5P | | | T801
T802 <u>A</u> | 1-437-082-31
1-439-526-12 | HDT
TRANSFORMER A | SSY, FLYBAC | :K | |
| | | | | | ***** | ****** | ******* | ****** | ***** | ****** |
| D801 8-719-302-43
D802 8-719-302-43 | ODE> DIODE EL1Z | | | | | *A-1241-070-A | FA BOARD, COM | | | |
| D803 8-719-302-43 | | ^ | | | i
! | · CAD | ACITODS | | | |
| D805 8-719-302-43 | DIODE EL1Z | u | | | 0601 | | ACITOR> | 0.000 | 008/ | 0500 |
| D806 8-719-302-43
D807 8-719-105-99 | DIODE RD6.2 | M-B1 | | | C601 | 1-136-185-00 | | 0.22MF | 20% | 250V |
| D809 8-719-908-03 | THYRISTOR C
DIODE GPO8D | KUZAM-4TB | | | | | NECTOR> | | | |
| D810 8-719-908-03 D811 8-719-908-03 | DIODE GPOSD | | | | CN601
CN602
CN603 | *1-580-689-11
*1-508-765-00
*1-564-507-11 | PIN, CONNECTO
PIN, CONNECTO
PLUG, CONNECT | OR (PC BOARD
OR (5MM PITC
'OR 4P | 9) 4P
2H) 3P | |
| D813 8-719-302-43 | DIODE EL1Z | | | | | ∠EIIC | r. | | | |
| <c0< td=""><td>IL></td><td></td><td></td><td></td><td></td><td><fus< td=""><td></td><td>·</td><td></td><td></td></fus<></td></c0<> | IL> | | | | | <fus< td=""><td></td><td>·</td><td></td><td></td></fus<> | | · | | |
| L803 1-422-613-11 | COIL (WITH
COIL, AIR C
COIL, DUST C | ORE | | | F601 A | 1-576-230-11
1-533-223-11 | FUSE (H.B.C.)
CLIP, FUSE | (3.15A/250 | IV) | |
| L805 1-460-225-11 | COIL, HORIZ | ONTAL LINEAI | RITY | | | <res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<> | ISTOR> | | | |
| | MICRO INDUC | | | | R602 | 1-214-945-00 | METAL | 2.2M 5% | 1/2W | |
| L810 1-412-529-11 | INDUCTOR | 22UH | | | | <swi< td=""><td>TCH></td><td></td><td></td><td></td></swi<> | TCH> | | | |
| < NE | ON LAMP> | | | | S601 | 1-692-050-11 | SWITCH, PUSH | (AC POWER) | (1KEY) | |
| NL801 1-519-108-99 | LAMP, NEON | | | | ***** | ********** | ********* | ******** | ***** | ****** |
| <tf< td=""><td>ANSISTOR></td><td></td><td></td><td></td><td></td><td>*A-1275-121-A</td><td>QA BOARD, CON</td><td></td><td></td><td></td></tf<> | ANSISTOR> | | | | | *A-1275-121-A | QA BOARD, CON | | | |
| Q801 8-729-195-82
Q802 8-729-201-62
*4-043-154-01
4-382-854-01
4-879-937-00 | HOLDER, IC;
SCREW (M3X8 | 2SC2555-2
Q802
), P, SW (+) |); Q 802 | | | 1-537-410-11 | TERMINAL BOARD TERMINAL BOARD | | | |
| Q803 8-729-906-24 | TRANSISTOR | 2SD835 | | | C401 | 1-124-234-00 | | 22MF | 20% | 16 V |
| 100 | | | | | C402 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| | SISTOR> | | | | C403 | 1-124-234-00
1-124-234-00 | ELECT
ELECT | 22MF | 20%
20% | 16V
16V |
| R801 1-249-383-11
R802 1-249-377-11 | | 1.5 5%
0.47 5% | 1/4W
1/4W | | | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| R803 1-216-049-00
R804 1-249-419-11 |) METAL GLAZE | 1K 5%
1.5K 5% | 1/10/
1/4W
2W | W | C406
C407
C408
C409
C410 | 1-124-234-00
1-124-234-00
1-124-463-00
1-124-234-00
1-124-234-00 | ELECT
ELECT
ELECT
ELECT
ELECT | 22MF
22MF
0.1MF
22MF
22MF | 20%
20%
20%
20%
20% | 16V
16V
50V
16V
16V |
| | | | | | C411 | 1-124-234-00 | ELECT | 22MF | 20% | 16V |
| | | | | | ! | | | | | |

QA

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | N | REMARK |
|--------------------------------------|--|------------------------------|--|---------------------------------|----------------------------------|--------------------------------------|--|--|--|--------|
| C412
C413
C414
C415 | 1-124-234-00
1-124-234-00
1-126-157-11
1-126-157-11 | ELECT
ELECT | 22MF
22MF
10MF
10MF | 20%
20%
20%
20%
20% | 16V
16V
16V
16V | D404
D405
D406 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110
DIODE MA110 | | |
| C416
C417
C418 | 1-126-157-11
1-126-157-11
1-126-157-11 | ELECT
ELECT | IOMF
10MF
10MF | 20%
20% | 16V
16V
16V | D407
D408
D409
D410 | 8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MA110 | | |
| C419
C420
C421 | 1-126-157-11
1-126-157-11
1-102-125-00 | ELECT | 10MF
10MF
0.0047MF | 20%
20%
10% | 16V
16V
50V | D411
D412
D413 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MAILO | | |
| C422
C423
C424
C425
C426 | 1-124-464-11
1-126-157-11
1-126-157-11
1-108-634-11
1-128-499-11 | ELECT
ELECT
MYLAR | 0.22MF
10MF
10MF
0.047MF
220MF | 20%
20%
20%
10%
20% | 50V
16V
16V
100V
16V | D414
D415
D416
D417 | 8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110 | | |
| C427
C428
C429
C430 | 1-128-499-11
1-124-589-11
1-124-234-00
1-163-033-00 | ELECT
ELECT
ELECT | 220MF
47MF
22MF | 20%
20%
20%
20% | 16V
16V
16V
50V | D418
D419
D420
D421 | 8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MAILO
DIODE MAILO
DIODE MAILO | | |
| C431
C432
C433 | 1-124-234-00
1-163-033-00
1-124-234-00 | CERAMIC CHIP | 22MF
0.022MF
22MF | 20% | 16V
50V
16V | D422
D423
D424
D425 | 8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MAIIO
DIODE MAIIO
DIODE MAIIO | | |
| C434
C435
C436
C437 | 1-163-033-00
1-124-234-00
1-163-033-00
1-163-033-00 | ELECT
CERAMIC CHIP | 22MF
0.022MF | 20% | 50V
16V
50V | D426
D427
D428
D429 | 8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MA110
DIODE MA110 | | |
| C438
C439
C440
C441 | 1-124-234-00
1-163-033-00
1-163-033-00
1-124-234-00 | ELECT
CERAMIC CHIP | 22MF
0.022MF | 20% | 16V
50V
50V
16V | D430
D431 | 8-719-404-46
8-719-404-46 | DIODE MA110 | | |
| C442
C443
C444
C445
C446 | 1-163-033-00
1-163-033-00
1-163-033-00
1-163-031-11
1-163-031-11 | CERAMIC CHIP | 0.022MF
0.022MF
0.01MF | | 50V
50V
50V
50V
50V | IC402 | <1C>
8-759-287-89
8-759-287-89
8-759-420-04 | IC MM1113XFI | 7 | |
| C447
C448
C449
C450
C451 | 1-126-301-11
1-124-234-00
1-163-031-11
1-124-234-00
1-163-033-00 | ELECT | 22MF | 20%
20%
20% | 50V
16V
50V
16V
50V | L401
L402 | <01
1-410-682-31
1-410-682-31 | INDUCTOR | 470UH
470UH | |
| C452
C453
C454 | 1-128-499-11
1-124-234-00
1-128-499-11 | ELECT
ELECT | 220MF
22MF
220MF | 20%
20%
20% | 16V
16V
16V | | <tra< td=""><td>NSISTOR></td><td></td><td></td></tra<> | NSISTOR> | | |
| C460
C461
C462 | 1-126-301-11
1-126-301-11
1-126-301-11 | ELECT | 1MF
1MF | 20%
20%
20% | 50V
50V
50V | Q401
Q402
Q403
Q404 | 8-729-120-28
8-729-120-28
8-729-216-22
8-729-120-28 | TRANSISTOR :
TRANSISTOR :
TRANSISTOR :
TRANSISTOR : | 2SC1623-L5L6
2SA1162-G | |
| C464
C465
C466
C467 | 1-163-031-11
1-163-031-11
1-163-031-11
1-163-031-11 | CERAMIC CHIP
CERAMIC CHIP | 0.01MF
0.01MF | | 50V
50V
50V
50V | Q405
Q406
Q407 | 8-729-120-28
8-729-120-28
8-729-120-28 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | 2SC1623-L5L6
2SC1623-L5L6
2SC1623-L5L6 | |
| C475 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V | Q408
Q409
Q410 | 8-729-120-28
8-729-120-28
8-729-120-28 | TRANSISTOR TRANSISTOR TRANSISTOR | 2SC1623-L5L6
2SC1623-L5L6 | |
| CN402 :
CN403 : | 1-506-494-11
*1-564-518-11
*1-580-690-11 | PLUG, CONNECT PIN, CONNECT | TOR 3P
OR (PC BOARD |) 2P | | Q411
Q412
Q413
Q414
Q416 | 8-729-216-22
8-729-216-22
8-729-216-22
8-729-216-22
8-729-420-81 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | 2SA1162-G
2SA1162-G
2SA1162-G | |
| CN404 | *1-564-520-11
<dio< td=""><td>PLUG, CONNEC</td><td>TOR 5P</td><td></td><td></td><td>Q417
Q418
Q419</td><td>8-729-901-06
8-729-901-06
8-729-901-06</td><td>TRANSISTOR I</td><td>DTA144EK
DTA144EK</td><td></td></dio<> | PLUG, CONNEC | TOR 5P | | | Q417
Q418
Q419 | 8-729-901-06
8-729-901-06
8-729-901-06 | TRANSISTOR I | DTA144EK
DTA144EK | |
| D401
D402
D403 | 8-719-404-46
8-719-404-46
8-719-110-09 | DIODE MAILO | | | | Q420
Q421
Q422 | 8-729-901-01
8-729-901-06
8-729-901-01 | TRANSISTOR I | DTC144EK
DTA144EK | |
| - 107 | 5 .17 110 07 | 5.050 RDO.25 | | | | 1 4744 | 0 147 701-01 | 1 NOICICHUN1 | A 1 C 1 4 4 C U | |

| QA | CA |
|----|----|
|----|----|

| | | | | | | | | | | | L | Q/1 | |
|--------------------------------------|---|---|---------------------------------|----------------------------------|--------------------------------------|-----|--------------------------------------|--|---|------------------------------------|---|---|---------------------------------------|
| REF.NO. | PART NO. | DESCRIPTION | | | | | | PART NO. | DESCRIPTION | | | | REMARK |
| Q423
Q424
Q426 | 8-729-901-06
8-729-901-06
8-729-120-28 | TRANSISTOR DT
TRANSISTOR DT
TRANSISTOR 2S | A144EK
A144EK
C1623- | L5L6 | | | R459
R460 | 1-216-689-11
1-216-089-91 | METAL GLAZE
METAL GLAZE | 39K
47K | 5%
5% | 1/10W
1/10W | |
| R401 | <res< td=""><td>ISTOR></td><td></td><td></td><td>/4₩</td><td></td><td>R461
R462
R463
R464
R465</td><td>1-216-097-00
1-216-115-00
1-216-105-00
1-216-077-00
1-216-025-00</td><td>METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE</td><td>100K
560K
220K
15K
100</td><td>55%
5555555555555555555555555555555555</td><td>1/10W
1/10W
1/10W
1/10W
1/10W</td><td></td></res<> | ISTOR> | | | /4₩ | | R461
R462
R463
R464
R465 | 1-216-097-00
1-216-115-00
1-216-105-00
1-216-077-00
1-216-025-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 100K
560K
220K
15K
100 | 55%
5555555555555555555555555555555555 | 1/10W
1/10W
1/10W
1/10W
1/10W | |
| R402
R403
R404
R405 | 1-216-049-00
1-216-093-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 75
1K
68K
56K
3.9K | | /10W
/10W
/10W
/10W | | R466
R467
R468
R469 | 1-216-097-00
1-216-115-00
1-216-105-00
1-216-077-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 100K
560K
220K
15K | 55%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/10W
1/10W
1/10W
1/10W | |
| R406
R407
R408
R409
R410 | 1-216-037-00
1-216-689-11
1-216-085-00
1-214-702-00
1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL METAL GLAZE | 330
39K
33K
75
1K | 5% 1,
5% 1,
1% 1, | /10W
/10W
/10W
/4W
/10W | | R470
R471
R472
R473 | 1-216-025-00
1-216-097-00
1-216-115-00
1-216-105-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100
100K
560K
220K | 5%
5% | 1/10W
1/10W
1/10W
1/10W | |
| R411
R412 | 1-216-093-00
1-216-091-00 | METAL GLAZE
METAL GLAZE | | 5% 1/
5% 1/ | /10W
/10W | | R474
R475 | 1-216-077-00
1-216-025-00 | METAL GLAZE
METAL GLAZE | 15K
100 | 5%
5% | 1/10W
1/10W | |
| R413
R414
R415 | | METAL GLAZE
METAL GLAZE | 3.9K
330
3.3K
82 | 5% 1/ | /10W
/10W
/10W
/10W | | R477
R479
R480
R481
R482 | 1-216-081-00
1-216-085-00
1-247-711-11
1-247-720-11
1-249-455-11 | METAL GLAZE
METAL GLAZE
CARBON
CARBON
CARBON | 22K
33K
680
3.9K
4.7 | 5%
5%
5%
5%
5% | 1/10W
1/10W
1/4W
1/4W
1/4W | |
| R417
R418
R419
R420 | 1-216-049-00
1-216-093-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 1K
68K
56K
3.9K | 5% 1/
5% 1/
5% 1/ | /10W
/10W
/10W
/10W | | R483
R484
R485 | 1-249-389-11
1-216-041-00
1-247-688-11 | CARBON
METAL GLAZE
CARBON | 4.7
470
10 | 5%
5%
5% | 1/4W F
1/10W
1/4W F | |
| R421
R422
R423 | 1-216-027-00
1-214-702-00
1-214-702-00 | METAL GLAZE
METAL
METAL | 120
75
75 | 1% 1/ | /10W
/4W
/4W | | R486
R487 | 1-216-037-00
1-249-468-11 | METAL GLAZE
CARBON | 330
82K | 5%
5% | 1/10W
1/4W | |
| R424
R425 | 1-216-049-00
1-216-093-00 | METAL GLAZE
METAL GLAZE | 1 K
68 K | 5% 1/
5% 1/ | /10W
/10W | | R488
R489
R490
R491 | 1-249-468-11
1-249-468-11
1-216-057-00
1-216-089-91 | CARBON
CARBON
METAL GLAZE
METAL GLAZE | 82K
82K
2.2K
47K | 5%
5%
5%
5%
5% | 1/4W
1/4W
1/10W
1/10W | |
| R426
R427
R428
R429
R430 | 1-216-091-00
1-216-063-00
1-216-037-00
1-214-702-00
1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL METAL GLAZE | 56K
3.9K
330
75
1K | 5% 1/
5% 1/
1% 1/ | /10W
/10W
/10W
/4W
/10W | | R492
R493
R494
R495 | 1-216-089-91
1-216-089-91
1-216-089-91
1-216-295-91 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47K
47K
0 | 5%
5% | 1/10W
1/10W
1/10W
1/10W | |
| R431
R432
R433 | 1-216-091-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 68K
56K
3.9K
120
75 | 5% 1/
5% 1/
5% 1/ | /10W
/10W
/10W | | R496
R497
R498 | 1-216-057-00
1-216-089-91 | METAL GLAZE METAL GLAZE METAL GLAZE | 2.2K
47K | 5%
5%
5% | 1/10W
1/10W
1/10W | |
| R434
R435
R436 | 1-216-027-00
1-214-702-00
1-216-049-00 | METAL GLAZE
METAL | 120
75
1K | | /10W
/4W
/10W | | K14U3 - | 1-216-089-91
1-216-089-91
1-216-097-00
1-216-295-91
1-216-097-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 47K
47K
100K
0 | 5%
5%
5% | 1/10W
1/10W
1/10W | |
| R437
R438
R439
R440 | 1-216-093-00
1-216-091-00
1-216-063-00
1-216-027-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 68K
56K
3.9K
120 | 5% 1/
5% 1/
5% 1/ | /10W
/10W
/10W
/10W | | R1410
R1411 | 1-216-049-00
1-216-089-91
1-216-113-00 | METAL GLAZE
METAL GLAZE | 100K
1K
47K
470K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | |
| R441
R442
R443
R444
R445 | 1-216-089-91
1-216-049-00
1-216-689-11
1-214-702-00
1-216-049-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 47K
1K
39K
75
1K | 5% 1/
5% 1/
1% 1/ | /10W
/10W
/10W
/4W
/10W | | RV401 | | IABLE RESISTOR | | ζ. | | |
| R446
R447
R448
R449
R450 | 1-216-093-00
1-216-091-00
1-216-063-00
1-216-027-00
1-214-702-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL | 68K
56K
3.9K
120 | 5% 1/
5% 1/
5% 1/
5% 1/ | /10W
/10W
/10W
/10W
/10W | 19. | \$401 | | TCH>
SWITCH, SLIDE | ***** | . * * * * | ***** | ***** |
| R451
R452 | 1-216-049-00
1-216-091-00 | METAL GLAZE
METAL GLAZE | 1K
56K | 5% 1/ | /10W
/10W | | | | CA BOARD, COM | PLETE | - | · ~ + * * * * * * * * * * * * * * * * * * | · · · · · · · · · · · · · · · · · · · |
| R453
R454
R455 | 1-216-093-00
1-216-063-00
1-216-037-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 68K
3.9K
330 | 5% 1/
5% 1/ | 10W
10W
10W
10W | , | | 1-251-244-11 | SOCKET, PICTUI | | <u> </u> | | |
| R456
R457
R458 | 1-216-085-00
1-216-085-00
1-247-707-11 | METAL GLAZE
METAL GLAZE
CARBON | 33K
33K
390 | 5% 1/ | /10W
/10W
/4W | | £701 | | ACITOR> | 3 0047 | Œ | 10% | אעס |
| 0750 | 1 101 174 1 | OUITOOH | J7U | Jh 1/ | ′4W | 3 | C701 | 1-162-114-00 | CERAMIC (| 0.0047N | เร | 10% 2 | SKA |

VM-9041QM/9044QM



| REF.NO. | PART NO. | DESCRIPTION | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | • | REMARK |
|------------------------------|---|---|--|------------------------------|---------------------------|--------------------------------------|--|--|--|---------------------------------|---------------------------------|
| C710 | 1-161-830-00 | | 0.0047MF | 99% | 500V | C530
C531 | 1-163-097-00
1-131-370-00 | | | | 50V
16V |
| | <con< td=""><td>NECTOR></td><td></td><td></td><td></td><td>C532</td><td>1-124-557-11</td><td>ELECT</td><td>1000MF</td><td>20%</td><td>25V</td></con<> | NECTOR> | | | | C532 | 1-124-557-11 | ELECT | 1000MF | 20% | 25V |
| CN701
CN702
CN703 | <pre><con *1-564-508-11<="" *1-564-509-11="" 1-508-784-00="" pre=""></con></pre> | PLUG, CONNECTO
PIN, CONNECTO
PLUG, CONNECTO | COR 6P
DR (5MM PITC)
COR 5P | H) 1P | | C533
C534
C535
C536 | 1-124-557-11
1-124-927-11
1-124-768-11
1-136-161-00
1-124-927-11 | ELECT
ELECT
FILM
ELECT | 4.7MF
4.7MF
0.047MF
4.7MF | 20%
20%
5%
20% | 50V
50V
50V
50V |
| | <011 | 15 | | | | C537 | 1-124-484-11
1-124-910-11
1-136-113-00 | ELECT | 220MF | 20% | 35V |
| L701 | <011
1-410-668-11 | INDUCTOR | 27UH | | | C539
C540
C541 | 1-124-910-11
1-136-113-00
1-163-017-00
1-163-035-00 | FILM
CERAMIC CHIP
CERAMIC CHIP | 2MF
0.0047MF
0.047MF | 20%
5%
10% | 50V
200V
50V
50V |
| | <res< td=""><td>ISTOR></td><td></td><td></td><td></td><td>C542</td><td>1-126-103-11</td><td>ELECT</td><td>470MF</td><td>20%</td><td>16V</td></res<> | ISTOR> | | | | C542 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| R701
R702
R703
R704 | RES 1-202-822-00 1-202-822-00 1-202-822-00 1-202-838-00 1-202-842-11 <var 1-230-164-00="" 1-275-122-11<="" td=""><td>SOLID
SOLID
SOLID
SOLID</td><td>2.2K 20%
2.2K 20%
2.2K 20%
100K 20%</td><td>1/2W
1/2W
1/2W
1/2W</td><td>,</td><td>C545
C546
C547
C548</td><td>1-126-103-11
1-126-101-11
1-124-907-11
1-124-907-11
1-124-907-11</td><td>ELECT
ELECT
ELECT
ELECT</td><td>470MF
100MF
10MF
10MF
10MF</td><td>20%
20%
20%
20%
20%</td><td>16V
50V
50V
50V</td></var> | SOLID
SOLID
SOLID
SOLID | 2.2K 20%
2.2K 20%
2.2K 20%
100K 20% | 1/2W
1/2W
1/2W
1/2W | , | C545
C546
C547
C548 | 1-126-103-11
1-126-101-11
1-124-907-11
1-124-907-11
1-124-907-11 | ELECT
ELECT
ELECT
ELECT | 470MF
100MF
10MF
10MF
10MF | 20%
20%
20%
20%
20% | 16V
50V
50V
50V |
| R706 | 1-202-842-11 | SULID | 220K 20% | 1/2W | | C549
C550 | 1-124-907-11
1-124-907-11 | ELECT | 10MF
10MF | 20%
20% | 50V
50V |
| | <var< td=""><td>IABLE RESISTOR</td><td>R> 1</td><td></td><td></td><td>C551
C552</td><td>1-124-907-11
1-124-907-11
1-124-927-11
1-101-004-00
1-126-103-11</td><td>ELECT
CERAMIC</td><td>4.7MF
0.01MF</td><td>20%</td><td>50V
50V</td></var<> | IABLE RESISTOR | R> 1 | | | C551
C552 | 1-124-907-11
1-124-907-11
1-124-927-11
1-101-004-00
1-126-103-11 | ELECT
CERAMIC | 4.7MF
0.01MF | 20% | 50V
50V |
| RV701 | 1-230-164-00 | RES, ADJ, MET | TAL GLAZE 551 | M | | C553 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| ***** | <pre><var ********************************<="" *4-376-132-11="" *4-376-133-11="" 1-230-164-00="" td=""><td>COVER (REAR E
COVER (MAIN),</td><td>.ID), CV VOL
CV VOL; RV'
***********</td><td>; RV701
701
******</td><td>******</td><td>C563
C564
C567
C568</td><td>1-106-383-00
1-163-009-11
1-124-907-11
1-130-736-11</td><td>MYLAR
CERAMIC CHIP
ELECT
FILM</td><td>0.047MF
0.001MF
10MF
0.01MF</td><td>10%
10%
20%
5%</td><td>100V
50V
50V
50V</td></var></pre> | COVER (REAR E
COVER (MAIN), | .ID), CV VOL
CV VOL; RV'
*********** | ; RV701
701
****** | ****** | C563
C564
C567
C568 | 1-106-383-00
1-163-009-11
1-124-907-11
1-130-736-11 | MYLAR
CERAMIC CHIP
ELECT
FILM | 0.047MF
0.001MF
10MF
0.01MF | 10%
10%
20%
5% | 100V
50V
50V
50V |
| | *A-1346-251-A | D BOARD, COM | PLETE | | | C569 | 1-130-471-00 | FILM | 0.001MF | 5%
5% | 507 |
| | | ******** | **** | | | C570
C571 | 1-163-117-00
1-124-913-11
1-101-004-00
1-106-351-00
1-106-351-00 | CERAMIC CHIP | 100PF
470MF | 5%
20% | 50 V
50 V |
| | <cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td>C572
C574</td><td>1-101-004-00
1-106-351-00</td><td>CERAMIC
MYLAR</td><td>0.01MF
0.0022MF</td><td>10%</td><td>50V
100V</td></cap<> | ACITOR> | | | | C572
C574 | 1-101-004-00
1-106-351-00 | CERAMIC
MYLAR | 0.01MF
0.0022MF | 10% | 50V
100V |
| C501 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | C575 | 1-106-351-00 | MYLAR | 0.0022MF | 10% | 100V |
| C502
C503
C504
C505 | 1-124-907-11
1-126-103-11
1-124-902-00 | ELECT
ELECT
ELECT
MYLAR | 47MF
10MF
470MF
0.47MF
0.039MF | 20%
20%
20%
10% | 50V
16V
50V
100V | C578
C831
C832
C833
C834 | 1-163-031-11
1-124-907-11
1-124-907-11
1-163-009-11
1-163-121-00 | CERAMIC CHIP
ELECT
ELECT
CERAMIC CHIP | 0.01MF
10MF
10MF
0.001MF | 20%
20%
10% | 50V
50V
50V
50V
50V |
| C506
C507 | 1-124-903-11
1-106-367-00 | ELECT
MYLAR | 1MF
0.01MF | 20%
10% | 50V
100V | C025 | 1 162 200 00 | CEDAMIC CHIP | 0.001546 | ⊃%
=≪ | 507 |
| C508
C509 | 1-124-903-11
1-136-173-00 | ELECT
FILM | 1MF
0.01MF
1MF
0.47MF
0.047MF | 20%
5% | 50V
50V | C835
C836
C837 | 1-163-209-00
1-124-907-11
1-163-209-00
1-136-163-00
1-106-351-00 | ELECT
CERAMIC CHIP | 10MF | 5%
20% | 50V
50V |
| C510 | 1-136-161-00 | | | | 50V | C838
C839 | 1-136-163-00 | FILM
MYLAR | 0.068MF | 5%
5%
10% | 50V
100V |
| C511
C512 | 1-124-903-11
1-106-375-12 | ELECT
Mylar | 1MF
0.022MF | 20%
10% | 50V
100V | C840 | 1-163-209-00 | CERAMIC CHIP | | 5% | 50V |
| C513
C514 | 1-106-375-12
1-106-371-00 | MYLAR
MYLAR | 0.022MF
0.015MF | 10%
10% | 100V
100V | C841
C843 | 1-163-209-00
1-124-902-00 | CERAMIC CHIP | | 5%
20% | 50V
50V |
| C515 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50Y | C844
C845 | 1-124-902-00
1-124-477-11 | ELECT
ELECT | 0.47MF
47MF | 20%
20% | 50V
25V |
| C516
C517 | 1-124-925-11
1-130-480-00 | ELECT
FILM | 2.2MF
0.0056MF | 20%
5% | 50V
50V | C846 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C518
C519 | 1-163-245-11
1-124-927-11 | CERAMIC CHIP | 56PF
4.7MF | 5%
5%
20% | 50V
50V | C847
C848 | 1-124-916-11
1-131-351-00 | ELECT
TANTALUM | 22MF
4.7MF | 20% | 50V
35V |
| C520 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50Y | C849
C1601 | 1-164-182-11
1-124-907-11 | CERAMIC CHIP | | 10% | 50V
50V |
| C521
C523 | 1-124-907-11
1-106-363-00 | ELECT
Mylar | 10MF
0.0068MF | 20%
10% | 50V
100V | C1602 | 1-164-161-11 | CERAMIC CHIP | | 10% | 50V |
| C524
C525 | 1-102-116-00
1-102-820-00 | CERAMIC
CERAMIC | 680PF
330PF | 10%
5% | 50V
50V | C1603 | 1-104-348-11 | ELECT
ELECT | 15MF
1000MF | 20%
20% | 50V
50V |
| C526 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V | C1605
C1606 | 1-128-500-51
1-124-922-11
1-163-009-11 | ELECT
CERAMIC CHIP | 1000MF | 20%
10% | 50V
50V |
| C527
C528 | 1-124-122-11
1-102-125-00 | ELECT
CERAMIC | 100MF
0.0047MF | 20%
10% | 50V
50V | | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C529 | 1-124-910-11 | ELECT | 47MF | 20% | 50V | C1608 | 1-124-916-11
1-163-009-11 | ELECT
CERAMIC CHIP | 22MF | 20%
10% | 50V
50V |
| | | | | | | C1610 | 1-124-927-11
1-124-482-11 | ELECT
ELECT | 4.7MF
33MF | 20%
20% | 50V
35V |
| | | | | | | ! | 1-136-257-00 | | 0.0039MF | 5% | 50V |



| REF. NO | . PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|--|-------------------------|---------------------------------|--------------------------------------|--|--|----------------|
| C1614
C1615
C1620 | 1-164-232-11
1-124-465-00
1-163-133-00 | CERAMIC CHIP 0.001MF | 10%
10%
20%
5% | 50V
50V
50V
50V
50V | F1601/ | | FUSE, MICRO (SECONDARY) (1.25A
HOLDER, FUSE | /125 V) |
| C1641 | 1-163-035-00
<con< td=""><td>CERAMIC CHIP 0.047MF</td><td></td><td>507</td><td>IC501
IC502
IC503</td><td>8-759-909-70</td><td>IC CX23025</td><td></td></con<> | CERAMIC CHIP 0.047MF | | 507 | IC501
IC502
IC503 | 8-759-909-70 | IC CX23025 | |
| CN501
CN502
CN504
CN505
CN507 | *1-564-506-11
*1-564-011-11
*1-564-508-11
*1-564-509-11
1-564-511-11 | PLUG, CONNECTOR 3P PIN, CONNECTOR 12P PLUG, CONNECTOR 5P PLUG, CONNECTOR 6P PLUG, CONNECTOR 8P PIN, CONNECTOR (B3P-VH PLUG, CONNECTOR 3P | | | 1C504
1C505
1C506
1C507 | 4-382-854-01
8-759-009-51
8-759-209-54
8-759-209-69 | SCREW (M3X8), P, SW (+); IC504
IC MC14558BF
IC TC4S01F
IC TC4S11F | |
| CN508
CN509 | *1-564-104-00
*1-564-506-11 | PIN, CONNECTOR (B3P-VH
PLUG, CONNECTOR 3P |) 3P | | IC831
IC832
IC833
IC1601 | 8-759-509-29
8-759-509-37
8-759-009-51
8-759-509-91 | IC XRU4011BF IC XRU4070BF IC MC14538BF IC XRA10393F | |
| D501 | <dio
8-719-404-46</dio
 | UC 2 | | | i | < COI | | |
| D502
D503
D504
D506 | 8-719-404-46
8-719-404-46
8-719-404-46
8-719-908-03 | DIODE MA110
DIODE MA110
DIODE MA110
DIODE GPO8D | | | L501
L502
L503
L506 | 1-410-093-11
1-410-665-31
1-424-625-11
1-412-530-31 | INDUCTOR 33MMH INDUCTOR 15UH COIL, CHOKE (PMC) 381.4UH INDUCTOR 27UH | |
| D507
D508
D511
D512
D514 | 8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46
8-719-404-46 | DIODE MAILO
DIODE MAILO | | | L1602 | 1-459-155-00
1-402-785-11 | COIL (WITH CORE) 45UH COIL, CHOKE 600UH FERRITE BEAD INDUCTOR 1.1UH | |
| D520
D521 | 8-719-800-76
8-719-800-76 | DIODE 1SS226
DIODE 1SS226 | | | | <tra< td=""><td>NSISTOR></td><td></td></tra<> | NSISTOR> | |
| D831
D832
D833 | 8-719-404-46
8-719-404-46
8-719-404-46 | | | | Q501
Q502
Q503
Q504 | 8-729-901-01
8-729-901-06 | TRANSISTOR DTC144EK
TRANSISTOR DTC144EK
TRANSISTOR DTA144EK
TRANSISTOR DTC144EK | |
| D834
D835
D836
D848
D1601 | 8-719-404-46
8-719-109-89
8-719-977-69
8-719-800-76
8-719-105-99 | DIODE MAIIO
DIODE RD5.6ESB2
DIODE DTZ24B
DIODE 1SS226
DIODE RD6.2M-B1 | | | Q505
Q508
Q509
Q512
Q513 | 8-729-120-28
8-729-120-28
8-729-120-28
8-729-120-28 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 | |
| D1606 | 8-719-977-61
8-719-981-00 | DIODE DTZ20B
DIODE ERC81-004
DIODE ERC81-004 | | | | 8-729-216-22
8-729-216-22 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SA1162-G | |
| D1608
D1609 | 8-719-977-02
8-719-977-49 | DIODE DTZ5.6A
DIODE DTZ15B | | | Q515
Q518
Q519
Q532 | 4-382-854-01
8-729-120-28 | TRANSISTOR 2SD1134-C
SCREW (M3X8), P. SW (+); Q515
TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6 | |
| D1611
D1612
D1615
D1617 | 8-729-101-31
8-719-404-46
8-719-404-46
8-719-977-49 | TRANSISTOR N13T1
DIODE MA110
DIODE MA110 | | | Q569
Q570
Q571 | 8-729-907-26
8-729-901-00
8-729-901-00 | TRANSISTOR IMX1
TRANSISTOR DTC124EK
TRANSISTOR DTC124EK | |
| D1618
D1620
D1621 | 8-719-977-49
8-719-801-78
8-719-510-12 | DIODE DTZ15B
DIODE 1SS184
DIODE D1OSC4M | | | Q576
Q579
Q599 | 8-729-901-01
8-729-920-48
8-729-920-48 | TRANSISTOR DTC144EK TRANSISTOR IMH2 TRANSISTOR IMH2 | |
| D1622
D1623 | 4-382-854-11
8-719-801-78
8-719-801-78 | SCREW (M3X10), P, SW (DIODE 1SS184 DIODE 1SS184 | | | 1 WODD | 8-729-216-22
8-729-120-28
8-729-120-28 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SC1623-L5L6
TRANSISTOR 2SC1623-L5L6 | |
| D1626
D1627
D1628 | 8-719-404-46 | DIODE MA110
DIODE MA110
DIODE MA110 | | • | 111602 | 8-729-255-12
8-729-120-28
8-729-120-28
8-729-120-28 | TRANSISTOR 2SC2551-0 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G | |
| D1699 | 8-719-404-46 | DIODE MA110 | | | Q1604
Q1605 | 8-729-216-22
8-729-119-80 | TRANSISTOR 2SA1162-G
TRANSISTOR 2SC2688-LK | |
| | <fus< td=""><td></td><td></td><td></td><td></td><td>4-382-854-01</td><td>TRANSISTOR 2SC2334-L
SCREW (M3X8), P, SW (+); Q1606
TRANSISTOR 2SC1623-L5L6</td><td></td></fus<> | | | | | 4-382-854-01 | TRANSISTOR 2SC2334-L
SCREW (M3X8), P, SW (+); Q1606
TRANSISTOR 2SC1623-L5L6 | |
| | | | | | | | | |



| _ | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMAR | ≀K
 |
|---|--------------------------------------|--|---|-----------------------------------|---------------------------------|---|--------|--------------------------------------|--|---|------------------------------------|--|---|--------|--------|
| | Q1609
Q1610 | 8-729-120-28
8-729-120-28
8-729-120-28
8-729-120-28
8-729-120-28 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S | C1623-L
C1623-L | 5L6
5L6
5L6
5L6
5L6 | | | R549
R550
R552
R553
R554 | 1-216-101-00
1-216-357-00
1-216-061-00
1-216-689-11
1-216-073-00 | METAL GLAZE
METAL OXIDE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.3K | 5%
5%
5% | 1/10W
1W H
1/10W
1/10W
1/10W | 7 | |
| | Q1614
Q1615 | 8-729-216-22 | TRANSISTOR 2S
TRANSISTOR 2S
TRANSISTOR 2S
TRANSISTOR 2S
TRANSISTOR 2S | C1623-L
A1162-G
A1162-G | | | | | 1-216-077-00
1-216-057-00
1-216-049-00
1-216-065-00
1-216-037-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 15K
2.2K
1K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | |
| | Q1618 | 8-729-216-22 | TRANSISTOR 2S | A1162-G | -00 | | | DEC1 | 1-216-081-00
1-216-053-00 | METAL GLAZE | 22K | 5% | 1/10W
1/10W | | |
| | JR510 | | ISTOR> | n | 59 | 1/10ម | | R563
R564
R565 | 1-216-061-00
1-249-415-11
1-216-059-00 | METAL GLAZE
CARBON
METAL GLAZE | 1.5K
3.3K
680
2.7K | 5%
5%
5% | 1/10W
1/4W 1
1/10W | F | |
| | JR517
R501
R502
R503 | 1-216-295-91
1-216-295-91
1-216-089-91
1-216-089-91
1-249-437-11 | METAL GLAZE | 0
0
47K
47K
47K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/4W | F | R566
R567
R568
R569 | 1-216-025-00
1-216-095-00
1-216-063-00
1-216-063-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | | 5%
5% | 1/10W
1/10W
1/10W
1/10W | | |
| | R504
R505 | | CARBON | 10K
10 | 5%
5% | 1/10W
1/4W | F | R570 | 1-216-093-00 | METAL GLAZE METAL GLAZE | | | 1/10W
1/10W | | |
| | R506
R507
R508
R509 | 1-216-071-00
1-216-059-00
1-216-085-00
1-216-687-11 | METAL GLAZE | 2.7K
33K | 5%
5%
5% | 1/10W
1/10W
1/10W | | R572
R573
R574
R575 | 1-216-089-91
1-216-095-00
1-216-063-00
1-216-063-00
1-216-105-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 47K
82K
3.9K
3.9K
220K | 5% | 1/10W
1/10W
1/10W
1/10W | | |
| | R510
R511
R512
R513 | 1-216-683-11 | METAL CHIP
METAL CHIP
METAL CHIP | 22K
10K
240K
4.7K | 0.50%
0.50%
0.50%
5% | 1/10W
1/10W
1/10W
1/10W | F | R576
R577
R578
R579 | 1-216-109-00
1-216-105-00
1-249-457-11
1-249-457-11 | METAL GLAZE | 330K
220K
6.8
6.8
150K | | 1/10W
1/10W
1/4W
1/4W | F
F | |
| | R514
R515 | 1-216-081-00 | METAL CHIP
METAL GLAZE | 120K
22K | 0.50%
5% | 1/10W
1/10W | | R589 | 1-216-101-00 | METAL GLAZE | 150K
3.9K | | 1/10W
1/10W | | |
| | R516
R517
R518 | 1-216-073-00
1-218-762-11
1-249-422-11 | METAL CHIP
CARBON | 270K
2.7K | 0.50%
5% | 1/10W
1/10W
1/4W | F | R592
R593
R594 | 1-216-033-00
1-216-101-00
1-216-065-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 220
150K
4.7K | 5%
5%
5% | 1/10W
1/10W
1/10W | | |
| | R519
R520
R521
R522
R523 | 1-216-085-00
1-216-677-11
1-216-067-00
1-216-107-00
1-216-081-00 | METAL GLAZE
METAL GLAZE | 33K
12K
5.6K
270K
22K | 5%
0.50%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | F | R831
R832
R833
R834 | 1-216-049-00
1-216-075-00
1-216-065-00
1-216-059-00 | METAL GLAZE | 1K
12K
4.7K
2.7K | 5%
5%%%%%
55%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/10W
1/10W
1/10W
1/10W
1/10W | | |
| | R524
R525 | 1-216-049-00
1-216-434-11 | METAL GLAZE
METAL OXIDE | 1K
1.8K | | T | F | R836 | 1-216-081-00
1-216-049-00 | METAL GLAZE | 22K
1K | | 1/10W | | |
| | R526
R527
R528 | 1-216-079-00
1-249-437-11
1-216-073-00 | CARBON
METAL GLAZE | 18K
47K
10K | 5%
5% | 1/10W
1/4W
1/10W | F | R838
R839
R840 | 1-216-075-00
1-216-049-00
1-216-061-00
1-216-097-00 | METAL GLAZE
METAL GLAZE | 12K
1K
3.3K
100K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | | |
| | R529
R530
R531 | 1-216-073-00
1-216-089-91
1-216-089-91 | METAL GLAZE
METAL GLAZE | 10K
47K
47K | 5%
5% | 1/10W
1/10W
1/10W | | R841 | 1-216-093-00 | METAL GLAZE | 68K
68K | 5%
5% | 1/10W | | |
| | R532
R533
R534 | 1-216-097-00
1-216-089-91
1-216-097-00 | METAL GLAZE | 100K
47K
100K | 5%
5% | 1/10W
1/10W
1/10W | | R843
R844
R847
R850 | 1-216-065-00
1-216-077-00
1-216-049-00
1-216-085-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K
15K
1K
33K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | | |
| | R535
R536
R537
R538 | 1-216-053-00
1-212-881-11
1-215-867-00
1-216-095-00 | METAL GLAZE
FUSIBLE
METAL OXIDE | 1.5K
100
470
82K | 5%
5%
5%
5% | 1/10W
1/4W
1W
1/10W | F | R851
R852
R853
R854 | 1-208-800-11
1-216-675-11
1-216-105-00
1-218-754-11 | METAL CHIP
METAL CHIP
METAL GLAZE
METAL CHIP | 5.6K
10K
220K
120K | 5% | 1/10W
1/10W
1/10W
1/10W | | |
| | R539
R540 | 1-216-095-00
1-216-101-00
1-216-063-00 | METAL GLAZE | 82K
150K
3.9K | 5%
5% | 1/10W
1/10W
1/10W | | R855 | 1-216-697-91
1-216-699-11 | METAL CHIP | 82K | 0.50% | 1/10W
1/10W | | |
| | R541
R542
R543 | 1-216-075-00
1-216-065-00 | METAL GLAZE | 12K
4.7K | 5%
5%
5% | 1/10W
1/10W | | R857
R858
R859 | 1-216-686-11
1-216-061-00
1-216-436-00 | METAL CHIP
METAL GLAZE | 30K
3.3K
3.9K | 0.50%
5%
5% | 1/10W
1/10W
1W | F | |
| | R544
R545
R546
R547 | 1-216-101-00
1-216-033-00
1-216-091-00
1-216-121-00 | METAL GLAZE
METAL GLAZE | 150K
220
56K
1M | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | | R860
R861
R862 | 1-216-675-11
1-216-671-11
1-216-675-11 | METAL CHIP
METAL CHIP
METAL CHIP | 10K
6.8K
10K | 0.50%
0.50%
0.50% | 1/10W
1/10W
1/10W | | |
| | R548 | 1-216-107-00 | | 270K | 5% | 1/10W | | R863 | 1-249-435-11 | | 33K | 5% | 1/4W | F | |

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

• The components identified by

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.



| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|--|---|--------------------------------------|-------------------------------------|---|--------|---|---|---|--|--------------------|----------------------------------|----------|
| R1504
R1505
R1506 | 1-216-049-00
1-216-695-11
1-216-089-91
1-216-667-11
1-216-081-00 | METAL GLAZE
METAL CHIP
METAL GLAZE
METAL CHIP
METAL GLAZE | 1 K
68 K
47 K
4.7 K
22 K | 5%
0.50%
5%
0.50%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | R1657
R1658
R1659 | 1-216-643-11
1-216-081-00
1-216-063-00
1-216-049-00 | METAL GLAZE
METAL GLAZE | 470
22K
3.9K | 5%
5%
5% | 1/10W
1/10W
1/10W
1/10W | |
| R1509
R1510
R1511 | 1-216-073-00
1-216-065-00
1-249-425-11
1-216-033-00
1-216-049-00 | METAL GLAZE
METAL GLAZE
CARBON
METAL GLAZE
METAL GLAZE | 10K
4.7K
4.7K
220
1K | 5%
5%
5%
5% | 1/10W
1/10W
1/4W
1/10W
1/10W | F | R1661 | 1-216-649-11
1-216-065-00
1-216-073-00 | METAL CHIP
METAL GLAZE
METAL GLAZE | 820
4.7K
10K | 0.50%
5%
5% | 1/10W
1/10W
1/10W | |
| R1519
R1520
R1601 | 1-216-017-00
1-216-025-00
1-216-053-00
1-216-685-11
1-208-812-11 | METAL GLAZE
METAL GLAZE
METAL GLAZE | 47
100
1.5K
27K
18K | | 1/10W
1/10W
1/10W | | RV502
RV503
RV504 | 1-238-019-11
1-241-765-11
1-241-763-11
1-224-250-XX | RES, ADJ, CAR
RES, ADJ, CER
RES, ADJ, MET | BON 471
BON 221
MET 4. | K
7K
Ze 2.21 | ζ | |
| R1603
R1604
R1605
R1606
R1607 | | CARBON
Metal Glaze | 6.8K
22K
7.5K
7.5K
8.2K | 0.50%
5%
5%
5%
5% | 1/10W
1/4W
1/10W
1/10W
1/10W | F | RV505
RV507
RV508
RV509
RV511 | 1-241-759-21
1-241-628-11
1-241-761-11
1-241-768-11
1-241-763-11 | RES, ADJ, CAR
RES, ADJ, CAR
RES, ADJ, CAR
RES, ADJ, CAR
RES, ADJ, CAR | BON 2.2
BON 1K
BON 220
BON 4. | 2K
Ok
7k | | |
| R1609
R1610
R1611 | 1-216-065-00
1-216-069-00
1-216-057-00
1-216-057-00
1-215-913-11 | METAL GLAZE
METAL GLAZE | 4.7K
6.8K
2.2K
2.2K
2.2C | 5% | 1/10W
1/10W
1/10W
1/10W
3W | | RV514
RV515
RV516
RV517 | 1-238-019-11
1-241-768-11
1-241-763-11
1-241-760-11 | RES. ADJ. CAR | BON 471
BON 220
MET 4.1
BON 470 | K
OK
7K
O | | |
| R1614
R1615 | 1-216-025-00
1-216-067-00
1-216-657-11
1-216-629-11
1-216-659-11 | METAL GLAZE
METAL GLAZE
METAL CHIP
METAL CHIP
METAL CHIP | 100
5.6K
1.8K
120
2.2K | 5%
5%
0.50%
0.50%
0.50% | 1/10W
1/10W
1/10W
1/10W
1/10W | | RV831
RV832
■RV833 | | | AL GLAZ
MET 101
AL GLAZ | ZE 100k
K
Ze | | |
| R1620
R1621
R1622 | 1-216-073-00
1-216-065-00
1-216-073-00
1-216-073-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 10K
4.7K
10K
10K
10K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | RV1602
■RV1603 | 1-241-761-11 | RES, ADJ, CAR
RES, ADJ, MET
COVER, (DIA. | BON 1K
AL GLAZ | 7E | | ; |
| R1625
R1626
R1627 | 1-216-061-00
1-216-065-00
1-216-049-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 100K
3.3K
4.7K
1K
10K | 5% | 1/8W
1/10W
1/10W
1/10W
1/10W | | RY1601 | <rel 1-755-022-11<="" td=""><td>RELAY, POWER</td><td></td><td></td><td></td><td></td></rel> | RELAY, POWER | | | | |
| R1630
R1631
R1632 | 1-216-683-11 | METAL CHIP
METAL CHIP
METAL GLAZE
METAL GLAZE
METAL GLAZE | 22K
22K
2.2K
510
330K | 0.50%
0.50%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | ***** | 1-437-216-11 | NSFORMER> TRANSFORMER, | ***** | :**** | ***** | ***** |
| R1634
R1635
R1636
R1640
R1641 | 1-216-099-00
1-216-097-00
1-216-073-00
1-216-063-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 120K
100K
10K
3.9K
10K | 5%
5%
5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | ! | *A-1371-782-A
*4-348-208-00 | HOLDER, LED | | | | |
| R1642
R1643
R1644
R1645
R1646 | 1-216-073-00
1-216-069-00
1-216-069-00
1-216-073-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 10K
6.8K
6.8K
10K
10K | 5%
5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | CN001
CN002 = | 1-506-478-11
1-564-007-11 | NECTOR> PIN, CONNECTOR PIN, CONNECTOR | R 13P
R 8P | | | ·. |
| R1647
R1648
R1649
R1650
R1651 | 1-216-685-11
1-216-069-00
1-216-069-00
1-216-069-00
1-216-069-00 | METAL CHIP
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 27K
6.8K
6.8K
6.8K
6.8K | 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | D001
D002 | 8-719-109-68 | DIODE SLP281C-
DIODE RD3.6ESI | | | | |
| R1653
R1654 | 1-216-069-00
1-216-069-00
1-208-812-11
1-216-081-00 | METAL GLAZE
METAL GLAZE
METAL CHIP
METAL GLAZE | 6.8K
6.8K
18K
22K | 5%
0.50% | 1/10W
1/10W
1/10W
1/10W | | JW009
JW024
R001 | <pre></pre> | ISTOR> METAL GLAZE METAL GLAZE CARBON | 0
0
1K | 5% | 1/10W
1/10W
1/4W | |

| НА | X | S |
|----|---|---|
| | 1 | |

| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK | |
|----------------------------------|--|--|-------------------------|-------------------------|---|--|--|--|---|---------------------------------|--|
| R002
R003
R004 | 1-216-295-91
1-216-295-91
1-216-081-00 | METAL GLAZE 0 5%
METAL GLAZE 22K 5% | 1/10W
1/10W
1/10W | | C1116
C1117
C1118
C1119
C1120 | 1-124-589-11
1-164-004-11 | CERAMIC CHIP
ELECT
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP | 47MF
0.1MF
0.0082MF | 5%
20%
10%
10%
5% | 50V
16V
25V
50V | |
| RV002
RV003
RV004 | 1-223-504-21 | RES, VAR, CARBON 20K RES, VAR, CARBON 20K RES, VAR, CARBON 20K RES, VAR, CARBON 20K RES, VAR, CARBON 20K RES, VAR, CARBON 20K | | | C1121
C1122
C1123
C1130
C1131 | 1-163-097-00 | CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP
CERAMIC CHIP | 5PF
15PF
15PF | 5%
0.25PF
5%
5%
5% | 50V
50V
50V
50V
50V | |
| RV007
RV008
RV009 | 1-226-773-11
1-226-773-11
1-226-773-11 | RES, VAR, CARBON 20K
RES, ADJ, METAL GLAZE 22K
RES, ADJ, METAL GLAZE 22K
RES, ADJ, METAL GLAZE 22K
RES, ADJ, METAL GLAZE 22K | | , | CN1101 | *1-565-488-11 | NECTOR> CONNECTOR, BO | ARD TO BOAR | D 12P | | |
| RV011
RV012 | 1-226-773-11
1-226-773-11
<swi< td=""><td>RES, ADJ, METAL GLAZE 22K
RES, ADJ, METAL GLAZE 22K</td><td></td><td></td><td>D1101
D1102</td><td><pre><dio 8-719-404-46="" 8-719-404-46<="" pre=""></dio></pre></td><td>DIODE MA110</td><td></td><td></td><td></td><td></td></swi<> | RES, ADJ, METAL GLAZE 22K
RES, ADJ, METAL GLAZE 22K | | | D1101
D1102 | <pre><dio 8-719-404-46="" 8-719-404-46<="" pre=""></dio></pre> | DIODE MA110 | | | | |
| S001
S002
S003
S004 | 1-554-419-00
1-554-419-00
1-554-419-00
1-554-419-00 | SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY) | | | IC1101 | <1C>
8-752-056-67 | | | | | |
| S005
S006 | 1-554-419-00 | SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY) | ****** | ****** | L1102
L1103 | <pre><c0i 1-404-496-00="" 1-408-411-00="" 1-408-411-00<="" pre=""></c0i></pre> | INDUCTOR
COIL
COIL | 15UH
15UH | | | |
| • | | X BOARD, COMPLETE | | | L1110 | 1-412-008-31 | INDUCTOR CHIP | 15UH | | .* | |
| CN21 | | NECTOR> PLUG, CONNECTOR 3P | | | | <tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td></tra<> | NSISTOR> | | | | |
| CNZI | | | | ! | Q1101
Q1102 | 8-729-120-28 | TRANSISTOR 2S
TRANSISTOR 2S | C1623-L5L6 | | | |
| D21
D22 | 8-719-023-78 | DIODE SEL3810DLC05
DIODE SEL3810DLC05 | | | Q1103
Q1104
Q1105 | 8-729-216-22
8-729-216-22
8-729-901-01 | TRANSISTOR 2S TRANSISTOR DT | A1162-G
A1162-G
C144EK | | | |
| D23 | 8-719-023-78
******** | DIODE SEL3810DLC05 | ****** | ****** | Q1106
Q1107
Q1108 | 8-729-109-44 | TRANSISTOR DT
TRANSISTOR 2S
TRANSISTOR 2S | K94-X4 | | | |
| 3 | *A-1394-368-A | S BOARD, COMPLETE | | | | <res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td></res<> | ISTOR> | | | | |
| C1102 | 1-163-119-00 -
1-164-004-11 | ACITOR> CERAMIC CHIP 120PF CERAMIC CHIP 0.1MF | 10% 2 | 50V
25V | R1101
R1102
R1103
R1104
R1105 | 1-216-053-00
1-216-067-00
1-216-059-00
1-216-073-00
1-216-031-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 1.5K 5%
5.6K 5%
2.7K 5%
10K 5%
180 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | |
| C1104
C1105
C1106 | 1-163-101-00 | CERAMIC CHIP 0.01MF CERAMIC CHIP 75PF CERAMIC CHIP 22PF | 5% 5
5% 5 | 6V
60V
60V
25V | R1106
R1107
R1108
R1109 | 1-216-059-00
1-216-071-00
1-216-039-00
1-216-063-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 2.7K 5%
8.2K 5%
390 5%
3.9K 5%
6.8K 5% | 1/10W
1/10W
1/10W
1/10W | | |
| C1108
C1109
C1110
C1111 | 1-163-119-00
1-163-031-11
1-163-117-00
1-163-018-00 | CERAMIC CHIP 120PF CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF CERAMIC CHIP 0.0056MF | 5% 5
5% 5
10% 5 | 50V
50V
50V | R1110
R1111
R1112
R1113
R1114 | 1-216-069-00
1-216-065-00
1-216-059-00
1-216-069-00
1-216-055-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 4.7K 5%
2.7K 5%
6.8K 5%
1.8K 5% | 1/10W
1/10W
1/10W
1/10W
1/10W | | |
| C1113
C1114 | 1-163-119-00
1-163-103-00 | CERAMIC CHIP 120PF
CERAMIC CHIP 27PF | 5% 5
5% 5 | 50V
50V
25V | R1115
R1116
R1117
R1118 | 1-216-061-00
1-216-069-00
1-216-061-00
1-216-073-00 | METAL GLAZE
METAL GLAZE
METAL GLAZE
METAL GLAZE | 3.3K 5%
6.8K 5%
3.3K 5%
10K 5% | 1/10W
1/10W
1/10W
1/10W | | |
| | | | | | | | | | | | |

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

• The components identified by

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

| | | | | | | | | | | ᆜᆫ | _ |
|---|--|---|------------------------------|----------------------------|--|--|--|----------------------------------|--------|------|---|
| REF.NO. PART NO. | DESCRIPTION | | REMARK | REF. NO. | PART NO. | DESCRIPTION | | | RE | MARK | |
| R1119 1-216-049-00
R1120 1-216-097-00
R1121 1-216-121-00
R1122 1-216-039-00
R1123 1-216-065-00 | METAL GLAZE 100K 5% METAL GLAZE 1M 5% | 1/104
1/104
1/104
1/104
1/104 | j
j | | <1C> | | 1 06C | | | | |
| R1124 1-216-029-00
R1125 1-216-029-00
R1126 1-216-053-00
R1127 1-216-043-00
R1128 1-216-049-00 | METAL GLAZE 150 5%
METAL GLAZE 1.5K 5%
METAL GLAZE 560 5% | 1/106
1/106
1/106
1/106
1/106 |)

 | IC651A | 1-809-086-12
8-759-908-15
8-759-045-81
<coi< td=""><td>IC TL431CLP
IC TLP732GR-L</td><td>F2</td><td></td><td></td><td></td><td></td></coi<> | IC TL431CLP
IC TLP732GR-L | F2 | | | | |
| R1129 1-216-091-00
R1131 1-216-073-00
R1132 1-216-073-00
R1133 1-216-073-00
R1134 1-216-091-00 | METAL GLAZE 10K 5%
METAL GLAZE 10K 5%
METAL GLAZE 10K 5% | 1/104
1/104
1/104
1/104
1/104 | | L602 A
 L651 A | 1-424-574-11 | COIL, CHOKE (| | | | | |
| ZVAI | DIADLE DECICTOR | | | | <tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td></td></tra<> | NSISTOR> | | | | | |
| RV1101 1-241-763-11 | RIABLE RESISTOR> RES, ADJ, CARBON 4.7K | | | Q601 ⚠ | 8-729-322-18 | TRANSISTOR 2S | K1402A | | | | |
| RV1102 1-241-628-11 | RES, ADJ, CARBON 2.2K | | | | <res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td></td></res<> | ISTOR> | | | | | |
| T1101 1-404-584-11 | ANSFORMER>
COIL | ***** | ****** | R602 ⚠
R603 ⚠
R604 ⚠ | 1-205-940-51
1-205-940-51
1-215-904-11
1-215-904-11
1-212-865-61 | CEMENT | 1.5 5%
1.5 5%
100K 5%
100K 5%
22 5% | 5W
5W
2W
2W
1/4W | ****** | | |
| | G BOARD (SOPS-1021(A)) | | | R606 ▲ | 1-247-805-91 | CARBON | 82 5%
270k 5% | 1/4W | | | |
| 4-812-134-11 | *******
RIVET NYLON, 3.5¢ | | | R608 ⚠
R609 ⚠ | 1-260-128-91
1-260-128-91
1-215-904-51
1-207-455-11 | CARBON
CARBON
METAL OXIDE
WIRE | 82 5%
270K 5%
270K 5%
100K 5%
0.22 10% | 1/2W
1/2W
2W
1/2W | F | | |
| <cai< td=""><td>PACITOR></td><td></td><td></td><td>R611 A</td><td>1-249-395-11
1-247-795-91</td><td>CARBON (SMALL)
CARBON</td><td>15 5%
33 5%</td><td>1/4W
1/4W</td><td></td><td></td><td></td></cai<> | PACITOR> | | | R611 A | 1-249-395-11
1-247-795-91 | CARBON (SMALL)
CARBON | 15 5%
33 5% | 1/4W
1/4W | | | |
| C603 A 1-161-741-00
C604 A 1-161-741-00
C605 A 1-161-741-00 | CERAMIC 0.001MF B
CERAMIC 0.001MF B | 20%
10%
10%
10% | 250V
400V
400V
400V | R613 A
R614 A
R620 A | 1-215-904-51
1-247-815-91
1-218-265-11 | METAL OXIDE
CARBON
METAL OXIDE | 100K 5%
220 5%
8.2M 5% | 2W
1/4W
1W | F | | |
| C608 A 1-162-599-12
C609 A 1-162-599-12
C610 A 1-125-724-11
C611 A 1-136-206-21 | CERAMIC 0.0047MF
ELECT 180MF
METALIZED FILM 0.033MF | 20%
20%
20%
10% | 400V
400V
400V
630V | R652 ▲
R653 ▲
R654 ▲ | 1-260-107-91 | METAL OXIDE
METAL OXIDE
CARBON
CARBON
CARBON | 100 5%
100 5%
4.7K 5%
4.7K 5%
33K 5% | 2W
2W
1/2W
1/2W
1/4W | F | | |
| C612 A 1-124-910-51
C613 A 1-137-190-91
C614 A 1-137-190-91
C615 A 1-130-471-91 | METALIZED FILM 0.22MF METALIZED FILM 0.22MF PE TEREPHTHALATE 0.001MF | 20%
5%
5% | 50V
50V
50V
50V | 1 R657 A | 1-247-867-91
1-247-837-91
1-249-435-11 | CARBON
CARBON
CARBON (SMALL) | 33K 5%
1.8K 5%
33K 5% | 1/4W
1/4W
1/4W | | | |
| C616 A 1-130-479-00
C651 A 1-161-825-11 | CERAMIC 220PF B | 5%
10% | 50V
500V | | <var< td=""><td>IABLE RESISTOR</td><td>></td><td></td><td></td><td></td><td></td></var<> | IABLE RESISTOR | > | | | | |
| C652 ▲ 1-128-486-51 | | 20% | 50V | B RV651 <u>∧</u> | 1-237-443-11 | RES, ADJ, CAR | BON 1K | | | | |
| C653 <u>A</u> 1-128-485-51
C654 <u>A</u> 1-130-483-91 | ELECT 220MF
PE TEREPHTHALATE 0.01MF | 20%
5% | 50V
50V | 1 | <tra< td=""><td>NSFORMER></td><td></td><td></td><td></td><td></td><td></td></tra<> | NSFORMER> | | | | | |
| <01 | NNECTOR> | | | T601 ▲ | 1-450-760-11 | TRANSFORMER, | CONVERTER | | | | |
| CN610A*1-560-436-11 | HORIZONTAL PIN ASSY 3P | | | ***** | ******* | ****** | ******** | ***** | **** | *** | |
| | PLUG, CONNECTOR 3P | | | | | MISCELLANEOUS | | | | | |
| | DE> | | | | | SWITCHING REG | | -1021 (| (A)) | | |
| D201 A 8-719-971-08
D601 A 8-719-510-27
D602 A 8-719-921-20
D603 A 8-719-981-47
D604 A 8-719-981-47 | DIODE D3SB60
DIODE 1SS119TD
DIODE ERA38-06TP1 | | | A | 1-451-319-22
1-452-126-11
1-544-252-11 | COIL, DEGAUSS
DEFLECTION YO
MAGNET
SPEAKER | KE (Y9FXC) | | | | |
| D605 ▲ 8-719-113-44 | DIODE RD20ES-T1B3 | | | Δ | 1-576-232-11
1-690-871-11 | FUSE (H.B.C.)
CABLE (MINI D | (5.0A/250V)
IN) 8P | | | | |
| | | | | | | | | | | | |

PVM-9041QM/9044QM

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

| REF.NO. PART NO. | DESCRIPTION | REMARK |
|---------------------|--|------------------------------|
| V901 A 8-737-154-05 | CONNECTOR ASSY CORE ASSY, FERRITE PICTURE TUBE (09NDX) PICTURE TUBE (09FX) | (PVM-9041QM)
(PVM-9044QM) |

ACCESSORIES AND PACKING MATERIALS

| \$\Lambda 1-590-910-11\$ 1-690-871-11\$ 2-990-241-02\$ 3-170-078-01\$ *3-704-301-01\$ | CORD SET, POWER (10A/250V) CABLE (MINI DIN) 8P HOLDER (A), PLUG HOLDER (B), PLUG BAG (STANDARD), PROTECTION |
|---|--|
| 3-754-506-24
4-034-835-01
*4-034-955-01
*4-034-956-01
*4-046-435-01 | MANUAL, INSTRUCTION PLATE, TALLY CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) INDIVIDUAL CARTON (PVM-9041QM |

\*4-046-436-01 INDIVIDUAL CARTON (PVM-9044QM)

Sony Corporation B&I Systems Company